

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE PENTRU OCUPAREA POSTURILOR DIDACTICE ȘI DE CERCETARE

Standardele minimale necesare și obligatorii pentru ocuparea posturilor de lector universitar / CS III, conferențiar universitar / CS II și profesor universitar / CS I la Facultatea de Fizică a Universității de Vest din Timișoara

Precizări:

- n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori:
 n_i dacă $n_i \leq 5$, $(n_i + 5)/2$ dacă $5 < n_i \leq 15$, $(n_i + 15)/3$ dacă $15 < n_i \leq 75$ și $(n_i + 45)/4$ dacă $n_i > 75$, unde n_i reprezintă numărul de autori ai articolului i . În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o

notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.

- Lucrările de tip "**Article. Proceedings paper**" pot fi considerate la activitatea de cercetare sau la cea didactică și profesională, o singură dată, la alegerea candidatului.

1. Activitatea didactică și profesională

A1 - Cărți în edituri internaționale recunoscute Web of Science în calitate de autor

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $4/n_i^{\text{ef}}$
1.				
Punctaj total indicator A ₁				0

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (<http://wokinfo.com/mbl/publishers/>)

Se acordă $4/n_i^{\text{ef}}$ puncte pentru fiecare carte .

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii.

A2 - Capitole de cărți în edituri internaționale recunoscute Web of Science, în calitate de autor/ Review-uri în reviste cotate ISI

Nr. crt.	Titlul capitolului - titlul cărții / titlul Review-ului	Autori	Editura, an / revista, an, pagini, link (dacă este cazul)	Punctaj $1/n_i^{\text{ef}}$
1.	Quadrature-Based Lattice Boltzmann Models for Rarefied Gas Flow – <i>Flowing Matter</i> (Ed. F. Toschi, M. Sega)	V. E. Ambruș, V. Sofonea	Springer, 2019; https://link.springer.com/chapter/10.1007/978-3-030-23370-9_9	0,5
2.	Exact solutions in quantum field theory under rotation – <i>Strongly Interacting Matter Under</i>	V. E. Ambruș, E. Winstanley	Lecture Notes in Physics 987 (Springer, Cham 2021). https://doi.org/10.1007/978-3-030-71427-7_4 .	0,5

	Rotation (Ed. F. Becattini, J. Liao, M. Lisa)			
Punctaj total indicator A₂				1,0

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (<http://wokinfo.com/mbl/publishers/>)

Se acordă $1/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii / revistei.

A3 - Cărți în edituri internaționale recunoscute Web of Science în calitate de editor

Nr. crt.	Titlul	Editori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1.				
Punctaj total indicator A₃				0

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (<http://wokinfo.com/mbl/publishers/>)

Se acordă $0.5/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A4 - Cărți, manuale, îndrumătoare de laborator în edituri naționale sau alte edituri internaționale ca autor

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1.	Teste grilă de Fizică	M. Ștef, V.E. Ambruș, A.M. Barb	Ed.Universității de Vest, Timișoara, 2016 http://www.librarie.net/p/279002/Teste-Grila-Fizica .	0,16
Punctaj total indicator A₄				0,16

Se acordă $0.5/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A5 - Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor

Nr. crt.	Titlul capitolului - titlul cărții	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.2/n_i^{ef}$
1.				
Punctaj total indicator A₅				0

Se acordă $0.2/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A6 - Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri cu ISBN indexate ISI

Nr. crt.	Titlul	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2/n_i^{ef}$
1.	Thermal Lattice Boltzmann models derived by Gauss quadrature using the spherical coordinate system	V. E. Ambruș, V. Sofonea	J. Phys.: Conf. Ser. 362 , (2012) 012043, DOI: 10.1088/1742-6596/362/1/012043 .	0,1
2.	Massless Rotating Fermions Inside a Cylinder	V. E. Ambruș, E. Winstanley	AIP Conf. Proc. 1694 (2015) 020011; DOI: 10.1063/1.4937237 .	0,1
3.	Fermions on AdS	V. E. Ambruș, E. Winstanley	Springer Proceedings in Physics 170 (2015) 331-336; DOI: 10.1007/978-3-319-20046-0_39 .	0,1
4.	Dirac fermions on an anti-de Sitter background	V. E. Ambruș, E. Winstanley	AIP Conf. Proc. 1634 (2014) 40-49; DOI: 10.1063/1.4903012 .	0,1
5.	Anderson-Witting transport coefficients for flows in general relativity	V. E. Ambruș	AIP Conf. Proc. 1796 (2017) 020006; DOI: 10.1063/1.4972354 .	0,2
6.	Lattice Boltzmann simulation of droplet formation in T-junction geometries	S. Busuioc, V. E. Ambruș, V. Sofonea	AIP Conf. Proc. 1796 (2017) 020009; DOI: 10.1063/1.4972357 .	0,066
7.	Quadrature-based lattice Boltzmann model for relativistic flows	R. Blaga, V. E. Ambruș	AIP Conf. Proc. 1796 (2017) 020010; DOI: 10.1063/1.4972358 .	0,1
8.	Quantum Corrections in Thermal States of Fermions on Anti-de Sitter Space-time	V. E. Ambruș, E. Winstanley	AIP Conf. Proc. 1916 (2017) 020005; DOI: 10.1063/1.5017425 .	0,1
9.	Lattice Boltzmann study of the one-dimensional boost-invariant expansion with anisotropic initial conditions	V. E. Ambruș, C. Guga-Roșian	AIP Conf. Proc. 2071 (2019) 020014; DOI: 10.1063/1.5090061 .	0,1
10.	Lattice Boltzmann approach to rarefied gas flows using half-range Gauss-Hermite quadratures: Comparison to DSMC results based on ab initio potentials	V. E. Ambruș, F. Sharipov, V. Sofonea	AIP Conf. Proc. 2132 (2019) 060012; DOI: 10.1063/1.5119552 .	0,066
11.	Implicit-Explicit Finite-Difference Lattice Boltzmann Model with Varying Adiabatic Index	S. T. Kis, V. E. Ambruș	AIP Conf. Proc. 2218 (2020) 050008; DOI: 10.1063/5.0001069 .	0,1
12.	Development of transverse flow for small and large systems in conformal kinetic theory	V. E. Ambruș, S. Schlichting, C. Werthmann	Acta Phys. Pol. B Proc. Suppl. 16 (2023) 1-A32. DOI: 10.5506/APhysPolBSupp.16.1-A32 .	0,066
13.	Establishing the Range of Applicability of Hydrodynamics in High-Energy Collisions	C. Werthmann, V. E. Ambruș, S. Schlichting	EPJ Web of Conferences 296 (2024) 05003. DOI: 10.1051/epjconf/20242960503 .	0,066
Punctaj total indicator A₆				1,264

Se acordă $0.2/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A7 - Brevete de invenție internaționale acordate

Nr. crt.	Titlul	Autori	Autoritatea care a acordat brevetul link (dacă este cazul)	Punctaj $3/n_i^{ef}$
1.				
2.				
Punctaj total indicator A₇				0

Se acordă $3/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina autorității care a acordat brevetul .

A8 - Brevete de invenție naționale acordate

Nr. crt.	Titlul	Autori	Autoritatea care a acordat brevetul link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1.				
2.				
Punctaj total indicator A₈				0

Se acordă $0.5/n_i^{ef}$ puncte pentru fiecare item.

Documente justificative: Copie în format hard, în format electronic sau link pe pagina autorității care a acordat brevetul .

A9 - Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)

Nr. crt.	Titlul proiectului sau programului	Calitatea (director sau responsabil)	Autoritatea contractantă, instituția, link (după cum este cazul)	Punctaj
1.				
2.				
Punctaj total indicator A₉				0

Se acordă 0.5puncte pentru fiecare item.

Calitatea de director/responsabil de programe de studii se considera o singura data.

Documente justificative: Copie în format hard sau în format electronic a documentelor de contractare sau link pe pagina autorității contractante sau a instituției unde s-a desfășurat programul sau alte documente care sa ateste calitatea mentionata.

A10 – Director /responsabil pentru proiecte de cercetare câștigate prin competiție națională sau internațională; proiectele de la punctul A₉ se exclud)

Nr. crt.	Titlul proiectului	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj V/100.000
1.	Lattice Boltzmann models for the simulation of flows of rarefied gases in the relativistic regime	Director	UEFISCDI; http://quasar.physics.uvt.ro/~victor/RUTE2910/ .	1,106
	Curs 2015: 1€=4,4450 lei; Buget 2015: 46.220,00 lei = €10.398,20 Curs 2016: 1€=4,4908 lei; Buget 2016: 246.550,00 lei = €54.901,13 Curs 2017: 1€=4,5681 lei; Buget 2017: 207.227,46 lei = €45.364,03 Buget Total: 499.997,46 lei = €110.663,36; Punctaj total: 1,106			
2.	Corecții cuantice în sisteme mezosopice	Director	UEFISCDI: http://quasar.physics.uvt.ro/~victor/QCORR/ .	0,528
	Curs 2018: 1€=4,6535 lei; Buget 2018: 83.295,00 lei = €17.899,43 Curs 2019: 1€=4,7452 lei; Buget 2019: 124.943,00 lei = €26.330,39 Curs 2020: 1€=4,8371 lei; Buget 2020: 41.647,00 lei = €8.609,91 Buget Total: 249.885,00 lei = €52.839,73; Punctaj total: 0,528			
3.	Modele cinetice pentru plasma quarc-gluon	Director	UEFISCDI; http://quasar.physics.uvt.ro/~victor/KQGP/ .	0,907
	Curs 2022: 1€=4,9315 lei; Buget 2022: 136.800,00 lei = €27.740,03 Curs 2023: 1€=4,9465 lei; Buget 2023: 216.858,00 lei = €43.840,69 Curs 2024: 1€=4,9746 lei; Buget 2024: 95.527,00 lei = €19.202,95 Buget Total: 449.185,00 lei = €90.783,67; Punctaj total: 0,907			
Punctaj total indicator A ₁₀				2,541

Se acordă $V/100.000$ puncte pentru fiecare item, unde V este valoarea contractului în euro.

Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară.

Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.

Documente justificative: Copie în format hard sau în format electronic după devizul postcalcul.

Punctaj total obținut pentru activitatea didactică și profesională:

$$A = \sum_{i=1}^{10} A_i = \mathbf{4,965}$$

CS III, Lector universitar: A 0.5

CS II, Conferențiar universitar: A 1

CS I, Profesor : A>2

2. Activitatea de cercetare

2.1 – Articole științifice originale, în extenso, ca autor

Nr. crt.	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag. încep. – pag.sf.)	AIS_i	n_i	n_i^{ef}	AIS_i/n_i^{ef}
1.	V. E. Ambruș, V. Sofonea, <i>High-order thermal lattice Boltzmann models derived by means of Gauss quadrature in the spherical coordinate system</i> , Phys. Rev. E 86 (2012) 016708. DOI: 10.1103/PhysRevE.86.016708 .	0,894	2	2	0,447
2.	B. Piaud, S. Blanco, R. Fournier, V. E. Ambruș, V. Sofonea, <i>Gauss quadratures - the keystone of lattice Boltzmann models</i> , Int. J. Mod. Phys. C 25 (2014) 1340016. DOI: 10.1142/S0129183113400160 .	0,245	5	5	0,049
3.	V. E. Ambruș, V. Sofonea, <i>Implementation of diffuse reflection boundary conditions using lattice Boltzmann models based on Gauss-Laguerre quadratures</i> , Phys. Rev. E 89 (2014) 041301(R). DOI: 10.1103/PhysRevE.89.041301 .	0,859	2	2	0,430
4.	V. E. Ambruș, E. Winstanley, <i>Rotating quantum states</i> , Phys. Lett. B 734 (2014) 296-301. DOI: 10.1016/j.physletb.2014.05.031 .	1,520	2	2	0,760
5.	V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann models based on Gauss quadratures</i> , Int. J. Mod. Phys. C 25 (2014) 1441011. DOI: 10.1142/S0129183114410113 .	0,245	2	2	0,122
6.	V. E. Ambruș, E. Winstanley, <i>Renormalised fermion vacuum expectation values on anti-de Sitter space-time</i> , Phys. Lett. B 749 (2015) 597-602. DOI: 10.1016/j.physletb.2015.08.045 .	1,489	2	2	0,744
7.	P. Fede, V. Sofonea, R. Fournier, S. Blanco, O. Simonin, G. Lepoutere, V. E. Ambruș, <i>Lattice Boltzmann model for predicting the deposition of inertial particles transported by a turbulent flow</i> , Int. J. of Multiphas. Flow 76 (2015). DOI: 10.1016/j.ijmultiphaseflow.2015.07.004 .	0,925	7	6	0,154
8.	V. E. Ambruș, E. Winstanley, <i>Rotating fermions inside a cylindrical boundary</i> , Phys. Rev. D 93 (2016) 104014. DOI: 10.1103/PhysRevD.93.104014 .	1,112	2	2	0,556
9.	V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann models based on half-range Gauss-Hermite quadratures</i> , J. Comput. Phys. 316 (2016) 760. DOI: 10.1016/j.jcp.2016.04.010 .	1,337	2	2	0,668
10.	V. E. Ambruș, I. Cotăescu, <i>Maxwell-Juttner distribution for rigidly rotating flows in spherically symmetric spacetimes using the tetrad formalism</i> , Phys. Rev. D 94 (2016) 085022. DOI: 10.1103/PhysRevD.94.085022 .	1,112	2	2	0,556
11.	V. E. Ambruș, V. Sofonea, <i>Application of mixed quadrature lattice Boltzmann models for the simulation of Poiseuille flow at non-negligible values of the Knudsen number</i> , J. Comput. Sci. 17 (2016) 403-417. DOI: 10.1016/j.jocs.2016.03.016 .	0,552	2	2	0,276
12.	V. E. Ambruș, E. Winstanley, <i>Thermal expectation values of fermions on anti-de Sitter space-time</i> , Class. Quantum Grav. 34 (2017) 145010. DOI: 10.1088/1361-6382/aa7863 .	1,146	2	2	0,573
13.	V. E. Ambruș, <i>Quantum non-equilibrium effects in rigidly-rotating thermal states</i> , Phys. Lett. B 771 (2017) 151-156. DOI: 10.1016/j.physletb.2017.05.038 .	1,346	1	1	1,346
14.	V. Sofonea, T. Biciușcă, S. Busuioc, V. E. Ambruș, G. Gonnella, A. Lamura, <i>Corner-transport-upwind lattice Boltzmann model for bubble cavitation</i> , Phys. Rev. E 97 (2018) 023309. DOI: 10.1103/PhysRevE.97.023309 .	0,770	6	5,5	0,140
15.	V. E. Ambruș, <i>Transport coefficients in ultrarelativistic kinetic theory</i> , Phys. Rev. C 97 (2018) 024914. DOI: 10.1103/PhysRevC.97.024914 .	0,707	1	1	0,707
16.	V. E. Ambruș, C. Kent, E. Winstanley, <i>Analysis of Scalar and Fermion Quantum Field Theory on Anti-De Sitter Space-Time</i> , Int. J. Mod. Phys. D 27 (2018) 1843014. DOI: 10.1142/S0218271818430149 .	0,581	3	3	0,194
17.	V. E. Ambruș, R. Blaga, <i>High-order quadrature-based lattice Boltzmann models for the flow of ultrarelativistic rarefied gases</i> , Phys. Rev. C 98 (2018) 035201. DOI: 10.1103/PhysRevC.98.035201 .	0,707	2	2	0,354
18.	V. E. Ambruș, V. Sofonea, <i>Half-range lattice Boltzmann models for the simulation of Couette flow using the Shakhov collision term</i> , Phys. Rev. E 98 (2018) 063311. DOI: 10.1103/PhysRevE.98.063311 .	0,770	2	2	0,385

19.	S. Busuioc, V. E. Ambruș, <i>Lattice Boltzmann models based on the vielbein formalism for the simulation of flows in curvilinear geometries</i> , Phys. Rev. E 99 (2019) 033304, DOI: 10.1103/PhysRevE.99.033304 .	0,732	2	2	0,366
20.	G. Negro, S. Busuioc, V. E. Ambruș, G. Gonnella, A. Lamura, V. Sofonea, <i>Comparison between isothermal collision-streaming and finite-difference lattice Boltzmann models</i> , Int. J. Mod. Phys. C 30 (2019) 1941005, DOI: 10.1142/S0129183119410055 .	0,218	6	5,5	0,040
21.	V. E. Ambruș, S. Busuioc, A. J. Wagner, F. Paillusson, H. Kusumaatmaja, <i>Multicomponent Flow on Curved Surfaces: A Vielbein Lattice Boltzmann Approach</i> , Phys. Rev. E 100 (2019) 063306, DOI: 10.1103/PhysRevE.100.063306 .	0,732	5	5	0,146
22.	S. Busuioc, V. E. Ambruș, T. Biciușcă, V. Sofonea, <i>Two-dimensional off-lattice Boltzmann model for van der Waals fluids with variable temperature</i> , Comput. Math. Appl. 79 (2020) 111-140. DOI: 10.1016/j.camwa.2018.12.015 .	0,928	4	4	0,232
23.	V. E. Ambruș, <i>Helical massive fermions under rotation</i> , JHEP08(2020)016. DOI: 10.1007/JHEP08(2020)016 .	1,016	1	1	1,016
24.	S. Busuioc, H. Kusumaatmaja, V. E. Ambruș, <i>Axisymmetric flows on the torus geometry</i> , J. Fluid Mech. 901 (2020) A9. DOI: 10.1017/jfm.2020.440 .	1,052	3	3	0,351
25.	V. E. Ambruș, F. Sharipov, V. Sofonea, <i>Comparison of the Shakhov and ellipsoidal models for the Boltzmann equation and DSMC for ab initio-based particle interactions</i> , Comput. Fluids 211 (2020) 104637. DOI: 10.1016/j.compfluid.2020.104637 .	0,956	3	3	0,319
26.	M. N. Chernodub, V. E. Ambruș, <i>Phase diagram of helically imbalanced QCD matter</i> , Phys. Rev. D 103 (2021) 094015. DOI: 10.1103/PhysRevD.103.094015 .	1,108	2	2	0,554
27.	V. E. Ambruș, E. Winstanley, <i>Vortical Effects for Free Fermions on Anti-De Sitter Space-Time</i> , Symmetry 13 (2021) 2019. DOI: 10.3390/sym13112019 .	0,435	2	2	0,217
28.	V. E. Ambruș, S. Busuioc, J. A. Fotakis, K. Gallmeister, C. Greiner, <i>Bjorken flow attractors with transverse dynamics</i> , Phys. Rev. D 104 (2021) 094022. DOI: 10.1103/PhysRevD.104.094022 .	1,108	5	5	0,221
29.	V. E. Ambruș, M. N. Chernodub, <i>Hyperon--anti-hyperon polarization asymmetry in relativistic heavy-ion collisions as an interplay between chiral and helical vortical effects</i> , Eur. Phys. J. C 82 (2022) 61. DOI: 10.1140/epjc/s10052-022-10002-y .	1,162	2	2	0,281
30.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Development of transverse flow at small and large opacities in conformal kinetic theory</i> , Phys. Rev. D 105 (2022) 014031. DOI: 10.1103/PhysRevD.105.014031 .	1,083	3	3	0,361
31.	V. E. Ambruș, R. Ryblewski, R. Singh, <i>Spin waves in spin hydrodynamics</i> , Phys. Rev. D 106 (2022) 014018. DOI: 10.1103/PhysRevD.106.014018 .	1,083	3	3	0,361
32.	D. Wagner, A. Palermo, V. E. Ambruș, <i>Inverse-Reynolds-dominance approach to transient fluid dynamics</i> , Phys. Rev. D 106 (2022) 016013. DOI: 10.1103/PhysRevD.106.016013 .	1,083	3	3	0,361
33.	V. E. Ambruș, L. Bazzanini, A. Gabbana, D. Simeoni, S. Succi, R. Tripiccion, <i>Fast kinetic simulator for relativistic matter</i> , Nat. Comput. Sci. 2 (2022) 641. DOI: 10.1038/s43588-022-00333-x .	4,208	6	5,5	0,765
34.	V. E. Ambruș, E. Molnár, D. H. Rischke, <i>Transport coefficients of second-order relativistic fluid dynamics in the relaxation-time approximation</i> , Phys. Rev. D 106 (2022) 076005. DOI: 10.1103/PhysRevD.106.076005 .	1,083	3	3	0,361
35.	V. E. Ambruș, M. N. Chernodub, <i>Vortical effects in Dirac fluids with vector, chiral and helical charges</i> , Eur. Phys. J. C 83 (2023) 111. DOI: 10.1140/epjc/s10052-023-11244-0 .	1,119	2	2	0,559
36.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Establishing the range of applicability of hydrodynamics in high-energy collisions</i> , Phys. Rev. Lett. 130 (2023) 152301. DOI: 10.1103/PhysRevLett.130.152301 .	3,013	3	3	1,000
37.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Opacity dependence of transverse flow, preequilibrium, and applicability of hydrodynamics in heavy-ion collisions</i> , Phys. Rev. D 107 (2023) 094013. DOI: 10.1103/PhysRevD.107.094013 .	1,057	3	3	0,352
38.	V. E. Ambruș, M. N. Chernodub, <i>Rigidly rotating scalar fields: Between real divergence and imaginary fractalization</i> , Phys. Rev. D 108 (2023)	1,057	2	2	0,528

	085016. DOI: 10.1103/PhysRevD.108.085016 .				
39.	D. Wagner, V. E. Ambruș, E. Molnár, <i>Analytical structure of the binary collision integral and the ultrarelativistic limit of transport coefficients of an ideal gas</i> , Phys. Rev. D 109 (2024) 056018. DOI: 10.1103/PhysRevD.109.056018 .	1,057	3	3	0,352
40.	V. E. Ambruș, M. N. Chernodub, <i>Helical separation effect and helical heat transport for Dirac fermions</i> , Eur. Phys. J. C 84 (2024) 282. DOI: 10.1140/epjc/s10052-024-12636-6 .	1,119	2	2	0,56
41.	V. E. Ambruș, E. Molnár, D. H. Rischke, <i>Relativistic second-order dissipative and anisotropic fluid dynamics in the relaxation-time approximation for an ideal gas of massive particles</i> , Phys. Rev. D 109 (2024) 076001. DOI: 10.1103/PhysRevD.109.076001 .	1,057	3	3	0,352
42.	V. E. Ambruș, M. N. Chernodub, <i>Acceleration as a circular motion along an imaginary circle: Kubo-Martin-Schwinger condition for accelerating field theories in imaginary-time formalism</i> , Phys. Lett. B 855 (2024) 138757. DOI: 10.1016/j.physletb.2024.138757 .	1,232	2	2	0,616
43.	V. E. Ambruș, E. Molnár, <i>Shakhov-type extension of the relaxation time approximation in relativistic kinetic theory and second-order fluid dynamics</i> , Phys. Lett. B 855 (2024) 138795. DOI: 10.1016/j.physletb.2024.138795 .	1,232	2	2	0,616
44.	V. E. Ambruș, D. Wagner, <i>High-order Shakhov-like extension of the relaxation time approximation in relativistic kinetic theory</i> , Phys. Rev. D 110 (2024) 056002. DOI: 10.1103/PhysRevD.110.056002 .	1,057	2	2	0,528
45.	P. Singha, V. E. Ambruș, M. N. Chernodub, <i>Inhibition of the splitting of the chiral and deconfinement transition due to rotation in QCD: The phase diagram of the linear sigma model coupled to Polyakov loops</i> , Phys. Rev. D 110 (2024) 094053. DOI: 10.1103/PhysRevD.110.094053 .	1,057	3	3	0,352
46.	S. Morales-Tejera, V. E. Ambruș, M. N. Chernodub, <i>Vortical waves in a quantum fluid with vector, axial, and helical charges. I. Non-dissipative transport</i> , Eur. Phys. J. C 84 (2024) 1320. DOI: 10.1140/epjc/s10052-024-13713-6 .	1,119	3	3	0,373
47.	S. Morales-Tejera, V. E. Ambruș, M. N. Chernodub, <i>Vortical waves in a quantum fluid with vector, axial, and helical charges. II. Dissipative effects</i> , Eur. Phys. J. C 85 (2025) 89. DOI: 10.1140/epjc/s10052-025-13770-5 .	1,119	3	3	0,373
48.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Collective dynamics in heavy and light-ion collisions. II. Determining the origin of collective behavior in high-energy collisions</i> , Phys. Rev. D 111 (2025) 054025. DOI: 10.1103/PhysRevD.111.054025 .	1,057	3	3	0,352
49.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Collective dynamics in heavy and light-ion collisions. I. Kinetic theory vs hydrodynamics</i> , Phys. Rev. D 111 (2025) 054024. DOI: 10.1103/PhysRevD.111.054024 .	1,057	3	3	0,352
Punctaj total indicator 2.1					I = 21,678

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a revistei.

Precizări:

- AIS_i – scorul de influență absolut al revistei respective din anul de publicare (conform cu www.eigenfactor.org pentru articolele publicate pana in 2006, respectiv Journal Citation Reports (ISI web of Science)incepand cu 200 (www.isiknowledge.com)); în cazul în care anul de publicare nu se regăsește în baza de date, se va alege valoarea corespunzătoare anului cel mai apropiat de cel în care a fost publicat articolul.
- n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori:

$$n_i^{\text{ef}} = \left\lfloor n_i, n_i \leq 5 \right\rfloor \left\lfloor (n_i + 5) / 2, n_i \in [5, 15] \right\rfloor \left\lfloor (n_i + 15) / 3, n_i \in [15, 75] \right\rfloor$$

- În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este

n_i^{ef}
coautor, atunci poate fi dat de numărul de autori din nota internă.

2.2 –Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol

Nr.	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag. _{inceput} -pag. _{sfârșit})	AIS _i
1.	V. E. Ambruș, V. Sofonea, <i>High-order thermal lattice Boltzmann models derived by means of Gauss quadrature in the spherical coordinate system</i> , Phys. Rev. E 86 (2012) 016708. DOI: 10.1103/PhysRevE.86.016708 .	0,894
2.	V. E. Ambruș, V. Sofonea, <i>Implementation of diffuse reflection boundary conditions using lattice Boltzmann models based on Gauss-Laguerre quadratures</i> , Phys. Rev. E 89 (2014) 041301(R). DOI: 10.1103/PhysRevE.89.041301 .	0,859
3.	V. E. Ambruș, E. Winstanley, <i>Rotating quantum states</i> , Phys. Lett. B 734 (2014) 296-301. DOI: 10.1016/j.physletb.2014.05.031 .	1,520
4.	V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann models based on Gauss quadratures</i> , Int. J. Mod. Phys. C 25 (2014) 1441011. DOI: 10.1142/S0129183114410113 .	0,245
5.	V. E. Ambruș, E. Winstanley, <i>Renormalised fermion vacuum expectation values on anti-de Sitter space-time</i> , Phys. Lett. B 749 (2015) 597-602. DOI: 10.1016/j.physletb.2015.08.045 .	1,489
6.	V. E. Ambruș, E. Winstanley, <i>Rotating fermions inside a cylindrical boundary</i> , Phys. Rev. D 93 (2016) 104014. DOI: 10.1103/PhysRevD.93.104014 .	1,112
7.	V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann models based on half-range Gauss-Hermite quadratures</i> , J. Comput. Phys. 316 (2016) 760. DOI: 10.1016/j.jcp.2016.04.010 .	1,337
8.	V. E. Ambruș, I. Cotăescu, <i>Maxwell-Juttner distribution for rigidly rotating flows in spherically symmetric spacetimes using the tetrad formalism</i> , Phys. Rev. D 94 (2016) 085022. DOI: 10.1103/PhysRevD.94.085022 .	1,112
9.	V. E. Ambruș, V. Sofonea, <i>Application of mixed quadrature lattice Boltzmann models for the simulation of Poiseuille flow at non-negligible values of the Knudsen number</i> , J. Comput. Sci. 17 (2016) 403-417. DOI: 10.1016/j.jocs.2016.03.016 .	0,552
10.	V. E. Ambruș, E. Winstanley, <i>Thermal expectation values of fermions on anti-de Sitter space-time</i> , Class. Quantum Grav. 34 (2017) 145010. DOI: 10.1088/1361-6382/aa7863 .	1,146
11.	V. E. Ambruș, <i>Quantum non-equilibrium effects in rigidly-rotating thermal states</i> , Phys. Lett. B 771 (2017) 151-156. DOI: 10.1016/j.physletb.2017.05.038 .	1,346
12.	V. E. Ambruș, <i>Transport coefficients in ultrarelativistic kinetic theory</i> , Phys. Rev. C 97 (2018) 024914. DOI: 10.1103/PhysRevC.97.024914 .	0,707
13.	V. E. Ambruș, C. Kent, E. Winstanley, <i>Analysis of Scalar and Fermion Quantum Field Theory on Anti-De Sitter Space-Time</i> , Int. J. Mod. Phys. D 27 (2018) 1843014. DOI: 10.1142/S0218271818430149 .	0,581
14.	V. E. Ambruș, R. Blaga, <i>High-order quadrature-based lattice Boltzmann models for the flow of ultrarelativistic rarefied gases</i> , Phys. Rev. C 98 (2018) 035201. DOI: 10.1103/PhysRevC.98.035201 .	0,707
15.	V. E. Ambruș, V. Sofonea, <i>Half-range lattice Boltzmann models for the simulation of Couette flow using the Shakhov collision term</i> , Phys. Rev. E 98 (2018) 063311. DOI: 10.1103/PhysRevE.98.063311 .	0,770
16.	S. Busuioc, V. E. Ambruș, <i>Lattice Boltzmann models based on the vielbein formalism for the simulation of flows in curvilinear geometries</i> , Phys. Rev. E 99 (2019) 033304. DOI: 10.1103/PhysRevE.99.033304 .	0,732
17.	V. E. Ambruș, S. Busuioc, A. J. Wagner, F. Paillusson, H. Kusumaatmaja, <i>Multicomponent Flow on Curved Surfaces: A Vielbein Lattice Boltzmann Approach</i> , Phys. Rev. E 100 (2019) 063306. DOI: 10.1103/PhysRevE.100.063306 .	0,732
18.	V. E. Ambruș, <i>Helical massive fermions under rotation</i> , JHEP 08 (2020)016. DOI: 10.1007/JHEP08(2020)016 .	1,016
19.	S. Busuioc, H. Kusumaatmaja, V. E. Ambruș, <i>Axisymmetric flows on the torus geometry</i> , J. Fluid	1,052

	Mech. 901 (2020) A9. DOI: 10.1017/jfm.2020.440 .	
20.	V. E. Ambruș, F. Sharipov, V. Sofonea, <i>Comparison of the Shakhov and ellipsoidal models for the Boltzmann equation and DSMC for ab initio-based particle interactions</i> , Comput. Fluids 211 (2020) 104637. DOI: 10.1016/j.compfluid.2020.104637 .	0,956
21.	V. E. Ambruș, E. Winstanley, <i>Vortical Effects for Free Fermions on Anti-De Sitter Space-Time</i> , Symmetry 13 (2021) 2019. DOI: 10.3390/sym13112019 .	0,435
22.	V. E. Ambruș, S. Busuioc, J. A. Fotakis, K. Gallmeister, C. Greiner, <i>Bjorken flow attractors with transverse dynamics</i> , Phys. Rev. D 104 (2021) 094022. DOI: 10.1103/PhysRevD.104.094022 .	1,108
23.	V. E. Ambruș, M. N. Chernodub, <i>Hyperon--anti-hyperon polarization asymmetry in relativistic heavy-ion collisions as an interplay between chiral and helical vortical effects</i> , Eur. Phys. J. C 82 (2022) 61. DOI: 10.1140/epjc/s10052-022-10002-y .	1,162
24.	V. E. Ambruș, C. Werthmann, S. Schlichting, <i>Development of transverse flow at small and large opacities in conformal kinetic theory</i> , Phys. Rev. D 105 (2022) 014031. DOI: 10.1103/PhysRevD.105.014031 .	1,083
25.	V. E. Ambruș, R. Ryblewski, R. Singh, <i>Spin waves in spin hydrodynamics</i> , Phys. Rev. D 106 (2022) 014018. DOI: 10.1103/PhysRevD.106.014018 .	1,083
26.	D. Wagner, A. Palermo, V. E. Ambruș, <i>Inverse-Reynolds-dominance approach to transient fluid dynamics</i> , Phys. Rev. D 106 (2022) 016013. DOI: 10.1103/PhysRevD.106.016013 .	1,083
27.	V. E. Ambruș, L. Bazzanini, A. Gabbana, D. Simeoni, S. Succi, R. Tripiccone, <i>Fast kinetic simulator for relativistic matter</i> , Nat. Comput. Sci. 2 (2022) 641. DOI: 10.1038/s43588-022-00333-x .	4,208
28.	V. E. Ambruș, E. Molnár, D. H. Rischke, <i>Transport coefficients of second-order relativistic fluid dynamics in the relaxation-time approximation</i> , Phys. Rev. D 106 (2022) 076005. DOI: 10.1103/PhysRevD.106.076005 .	1,083
29.	V. E. Ambruș, M. N. Chernodub, <i>Vortical effects in Dirac fluids with vector, chiral and helical charges</i> , Eur. Phys. J. C 83 (2023) 111. DOI: 10.1140/epjc/s10052-023-11244-0 .	1,119
30.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Establishing the range of applicability of hydrodynamics in high-energy collisions</i> , Phys. Rev. Lett. 130 (2023) 152301. DOI: 10.1103/PhysRevLett.130.152301 .	3,013
31.	V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Opacity dependence of transverse flow, preequilibrium, and applicability of hydrodynamics in heavy-ion collisions</i> , Phys. Rev. D 107 (2023) 094013. DOI: 10.1103/PhysRevD.107.094013 .	1,057
32.	D. Wagner, V. E. Ambruș, E. Molnár, <i>Analytical structure of the binary collision integral and the ultrarelativistic limit of transport coefficients of an ideal gas</i> , Phys. Rev. D 109 (2024) 056018. DOI: 10.1103/PhysRevD.109.056018 .	1,057
33.	V. E. Ambruș, M. N. Chernodub, <i>Helical separation effect and helical heat transport for Dirac fermions</i> , Eur. Phys. J. C 84 (2024) 282. DOI: 10.1140/epjc/s10052-024-12636-6 .	1,119
34.	V. E. Ambruș, E. Molnár, D. H. Rischke, <i>Relativistic second-order dissipative and anisotropic fluid dynamics in the relaxation-time approximation for an ideal gas of massive particles</i> , Phys. Rev. D 109 (2024) 076001. DOI: 10.1103/PhysRevD.109.076001 .	1,057
35.	V. E. Ambruș, M. N. Chernodub, <i>Rigidly rotating scalar fields: Between real divergence and imaginary fractalization</i> , Phys. Rev. D 108 (2023) 085016. DOI: 10.1103/PhysRevD.108.085016 .	1,057
36.	V. E. Ambruș, M. N. Chernodub, <i>Acceleration as a circular motion along an imaginary circle: Kubo-Martin-Schwinger condition for accelerating field theories in imaginary-time formalism</i> , Phys. Lett. B 855 (2024) 138757. DOI: 10.1016/j.physletb.2024.138757 .	1,232
37.	V. E. Ambruș, E. Molnár, <i>Shakhov-type extension of the relaxation time approximation in relativistic kinetic theory and second-order fluid dynamics</i> , Phys. Lett. B 855 (2024) 138795. DOI: 10.1016/j.physletb.2024.138795 .	1,232
38.	V. E. Ambruș, D. Wagner, <i>High-order Shakhov-like extension of the relaxation time approximation in relativistic kinetic theory</i> , Phys. Rev. D 110 (2024) 056002. DOI: 10.1103/PhysRevD.110.056002 .	1,057
39.	P. Singha, V. E. Ambruș, M. N. Chernodub, <i>Inhibition of the splitting of the chiral and deconfinement transition due to rotation in QCD: The phase diagram of the linear sigma model coupled to Polyakov loops</i> , Phys. Rev. D 110 (2024) 094053. DOI: 10.1103/PhysRevD.110.094053 .	1,057
40.	S. Morales-Tejera, V. E. Ambruș, M. N. Chernodub, <i>Vortical waves in a quantum fluid with vector, axial, and helical charges. I. Non-dissipative transport</i> , Eur. Phys. J. C 84 (2024) 1320. DOI: 10.1140/epjc/s10052-024-13713-6 .	1,119
41.	S. Morales-Tejera, V. E. Ambruș, M. N. Chernodub, <i>Vortical waves in a quantum fluid with vector, axial, and helical charges. II. Dissipative effects</i> , Eur. Phys. J. C 85 (2025) 89. DOI: 10.1140/epjc/s10052-025-13770-5 .	1,119
42.	V. E. Ambruș, C. Werthmann, S. Schlichting, <i>Collective dynamics in heavy and light-ion</i>	1,057

	collisions. I. Kinetic theory vs hydrodynamics, Phys. Rev. D 111 (2025) 054024. DOI: 10.1103/PhysRevD.111.054024 .	
43.	V. E. Ambruș, C. Werthmann, S. Schlichting, Collective dynamics in heavy and light-ion collisions. II. Determining the origin of collective behavior in high-energy collisions, Phys. Rev. D 111 (2025) 054025. DOI: 10.1103/PhysRevD.111.054025 .	1,057
Punctaj total indicator 2.2		P = 48,519

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a revistei.

Precizări:

- AIS_i – scorul de influență absolut al revistei respective (www.isiknowledge.com, secțiunea Journal Citation Reports); în cazul în care anul de publicare nu se regăsește în baza de date, se va alege valoarea corespunzătoare anului cel mai apropiat de cel în care a fost publicat articolul.
- Nu se iau în considerare articolele la care autorii sunt indicați în ordinea alfabetică a numelui și candidatul este prim-autor exclusiv datorită numelui acestuia și ordonării alfabetice.

CS III, Lector universitar: I>1, P>1
CSII, Conferențiar universitar: I>2, P>2
CSI, Profesor universitar: I>4; P>4

I = 21,678; P = 48,519

3. Recunoașterea impactului activității

3.1. Citări în reviste științifice cu factor de impact care se regasesc in InCites Journal Citation Reports sau in carti in edituri recunoscute Web of Science. Nu se iau in considerare citarile provenind din articole care au ca autor sau coautor candidatul

Nr. publ. citată	Nr. publ. care citează	Referința bibliografică a publicației care citează (Autori, Titlul, Revista, Vol., anul, pag.inceput -pag.sfârșit)	C_i al publ. citate	n_i^{ef} al publ. citate	Punctaj $\frac{C_i}{n_i^{ef}}$
I.		V. E. Ambruș, <i>Particle production in a Robertson-Walker space with a de Sitter phase of finite extension</i> , MSc Thesis 2010, arXiv:1701.06243 [hep-th] .	1	1	1,0
	1.	I. I. Cotăescu, <i>Rest frame vacua of massive Klein-Gordon fields on spatially flat FLRW spacetimes</i> , Eur. Phys. J. C 80 (2020) 621. DOI: 10.1140/epjc/s10052-020-8170-9 .			
II.		V. E. Ambruș, V. Sofonea, <i>High-order thermal lattice Boltzmann models derived by means of Gauss quadrature in the spherical coordinate system</i> , Phys. Rev. E 86 (2012) 016708, DOI: 10.1103/PhysRevE.86.016708 .	17	2	8,5
	1.	R. R. Arslanbekov, V. I. Kolobov, A. A. Frolova, <i>Kinetic solvers with adaptive mesh in phase space</i> , Phys. Rev. E 88 (2013) 063301. DOI: 10.1103/PhysRevE.88.063301 .			
	2.	Y. Gan, A. Xu, G. Zhang, Y. Yang, <i>Lattice BGK kinetic model for high-speed compressible flows: Hydrodynamic and nonequilibrium behaviors</i> , EPL 103 (2013) 24003. DOI: 10.1209/0295-5075/103/24003 .			
	3.	S. Zabelok, R. Arslanbekov, V. Kolobov, <i>Adaptive kinetic-fluid solvers for heterogeneous computing architectures</i> , J. Comput. Phys. 303 (2015) 455. DOI: 10.1016/j.jcp.2015.10.003 .			
	4.	T. Biciușcă, A. Horga, V. Sofonea, <i>Simulation of liquid-vapour phase separation on GPUs using Lattice Boltzmann models with off-lattice velocity sets</i> , CR Mecanique 343 (2015) 580. DOI: 10.1016/j.crme.2015.07.011 .			
	5.	Y. Shi, Y. W. Yap, J. E. Sader, <i>Linearized lattice Boltzmann method for micro- and nanoscale flow and heat transfer</i> , Phys. Rev. E 92 (2015) 013307. DOI: 10.1103/PhysRevE.92.013307 .			
	6.	S. K. Singh, C. Thantapanally, S. Ansumali, <i>Gaseous microflow modeling using the Fokker-Planck equation</i> , Phys. Rev. E 94 (2016) 063307. DOI: 10.1103/PhysRevE.94.063307 .			
	7.	W. Su, S. Lindsay, H. Liu, L. Wu, <i>Comparative study of the discrete velocity and lattice Boltzmann methods for rarefied gas flows through irregular channels</i> , Phys. Rev. E 96 (2017) 023309, DOI: 10.1103/PhysRevE.96.023309 .			
	8.	L. Zhu, X. Yang, Z. Guo, <i>Thermally induced rarefied gas flow in a three-dimensional enclosure with square cross-section</i> , Phys. Rev. Flu. 2 (2017) 123402, DOI: 10.1103/PhysRevFluids.2.123402 .			
	9.	S. Succi, <i>The Lattice Boltzmann Equation: For Complex States of Flowing Matter</i> (Oxford Academic Press, 2018). DOI: 10.1093/oso/9780199592357.001.0001 .			
	10.	S.-M. Hou, Z.-H. Li, X.-Y. Jiang, S. Zeng, <i>Numerical study on two-dimensional micro-channel flows using gas-kinetic unified algorithm</i> , Commun. Comput. Phys. 23 (2018) 1393-1414, DOI: 10.4208/cicp.OA-2016-0232 .			
	11.	M. Atif, M. Namburi, S. Ansumali, <i>Higher-order lattice Boltzmann model for thermodynamics</i> , Phys. Rev. E 98 (2018) 053311. DOI: 10.1103/PhysRevE.98.053311 .			
	12.	S. Tao, B. Chen, H. Xiao, S. Huang, <i>Lattice Boltzmann simulation of thermal flows with complex geometry using a single-node curved boundary condition</i> , Int. J. Therm. Sci. 146 (2019) 106112. DOI: 10.1016/j.ijthermalsci.2019.106112 .			
	13.	L. Wu, X.-J. Gu, <i>On the accuracy of macroscopic equations for linearized rarefied gas flows</i> , Adv. Aerodyn. 2 (2020) 2. DOI: 10.1186/s42774-019-0025-4 .			
	14.	Y. Shi, <i>Velocity discretization for lattice Boltzmann method for noncontinuum bounded gas flows at the micro- and nanoscale</i> , Phys. Fluids 34 (2022) 34. DOI: 10.1063/5.0096233 .			
	15.	F. Klass, A. Gabbana, A. Bartel, <i>A Characteristic Boundary Condition for Multispeed Lattice Boltzmann Methods</i> , Commun. Comput. Phys. 33 (2023) 101. DOI: 10.4208/cicp.OA-2022-0052 .			
	16.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .			
	17.	L. Wang, H. Liang, J. R. Xu, <i>A novel Gauss-Jacobi quadrature for multiscale Boltzmann solvers</i> , App. Math. Lett. 159 (2025) 109291. DOI: 10.1016/j.aml.2024.109291 .			
III.		V. E. Ambruș, V. Sofonea, <i>Thermal Lattice Boltzmann models derived by Gauss quadrature using the spherical coordinate system</i> , J. Phys.: Conf. Ser. 362 (2012) 012043. DOI: 10.1088/1742-6596/362/1/012043 .	1	2	0,5
	1.	G. P. Ghiroldi, L. Gibelli, <i>A Finite-Difference Lattice Boltzmann Approach for Gas Microflows</i> , Comm. Comput. Phys. 17 (2015) 1007-1018. DOI: 10.4208/cicp.2014.m424 .			
IV.		V. E. Ambruș, E. Winstanley, <i>Rotating quantum states</i> , Phys. Lett. B 734 (2014) 296-301. DOI: 10.1016/j.physletb.2014.05.031 .	48	2	24,0

1.	C. Kent, E. Winstanley, <i>The global rotating scalar field vacuum on anti-de Sitter space-time</i> , Phys. Lett. B 740 (2015) 188-191. DOI: 10.1016/j.physletb.2014.11.047 .	
2.	K. Mameda, A. Yamamoto, <i>Magnetism and rotation in relativistic field theory</i> , Prog. Theor. Exp. Phys. (2015) 093B05, DOI: 10.1093/ptep/ptw128 .	
3.	Y. Jiang, J. Liao, <i>Pairing Phase Transitions of Matter under Rotation</i> , Phys. Rev. Lett. 117 (2016) 192302. DOI: 10.1103/PhysRevLett.117.192302 .	
4.	M. N. Chernodub, S. Gongyo, <i>Interacting fermions in rotation: chiral symmetry restoration, moment of inertia and thermodynamics</i> , J. High Energy Phys. 136 (2017), DOI: 10.1007/JHEP01(2017)136 .	
5.	M. N. Chernodub, S. Gongyo, <i>Effects of rotation and boundaries on chiral symmetry breaking of relativistic fermions</i> , Phys. Rev. D 95 (2017) 096006, DOI: 10.1103/PhysRevD.95.096006 .	
6.	M. N. Chernodub, S. Gongyo, <i>Edge states and thermodynamics of rotating relativistic fermions under magnetic field</i> , Phys. Rev. D 96 (2017) 096014, DOI: 10.1103/PhysRevD.96.096014 .	
7.	H. Ramezani-Aval, <i>The Unruh Effect for Eccentric Uniformly Rotating Observers</i> , Int. J. Mod. Phys. D 27 (2018) 1850014, DOI: 10.1142/S0218271818500141 .	
8.	M. A. Zubkov, <i>Hall effect in the presence of rotation</i> , EPL 21 (2018) 47001. DOI: 10.1209/0295-5075/121/47001 .	
9.	M. de Montigny, S. Zare, H. Hassanabadi, <i>Fermi field and Dirac oscillator in a Som-Raychaudhuri space-time</i> , Gen. Relativ. Gravit. 50 (2018) 47, DOI: 10.1007/s10714-018-2370-8 .	
10.	M. Chernodub, A. Cortijo, K. Landsteiner, <i>Zilch vortical effect</i> , Phys. Rev. D 98 (2018) 065016, DOI: 10.1103/PhysRevD.98.065016 .	
11.	R. Abramchuk, Z. V. Zhaidukov, M. A. Zubkov, <i>Anatomy of the chiral vortical effect</i> , Phys. Rev. D 98 (2018) 076013. DOI: 10.1103/PhysRevD.98.076013 .	
12.	G. Y. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Axial current in rotating and accelerating medium</i> , Phys. Rev. D 98 (2018) 071901(R). DOI: 10.1103/PhysRevD.98.071901 .	
13.	M. Zubkov, Z. Khaidukov, R. Abramchuk, <i>Momentum Space Topology and Non-Dissipative Currents</i> , Universe 4 (2018) 146. DOI: 10.3390/universe4120146 .	
14.	M. Buzzegoli, F. Becattini, <i>General thermodynamic equilibrium with axial chemical potential for the free Dirac field</i> , JHEP 12 (2018) 2. DOI: 10.1007/JHEP12(2018)002 .	
15.	J. B. Formiga, <i>The Frenet-Serret description of Born rigidity and its application to the Dirac equation</i> , Revista Mexicana de Fisica 66 (2020) 180. DOI: 10.31349/RevMexFis.66.180 .	
16.	S. Bhattacharya, S. Chakraborty, S. Goyal, <i>Dirac fermion, cosmological event horizons and quantum entanglement</i> , Phys. Rev. D 101 (2020) 085016. DOI: 10.1103/PhysRevD.101.085016 .	
17.	Z. Zhang, C. Shi, X. Luo, H.-S. Zong, <i>Rotating fermions inside a spherical boundary</i> , Phys. Rev. D 102 (2020) 065002. DOI: 10.1103/PhysRevD.102.065002 .	
18.	M. Buzzegoli, <i>Thermodynamic Equilibrium of Massless Fermions with Vorticity, Chirality and Electromagnetic Field</i> , in Strongly interacting matter under rotation (eds. J. Liao, M. Lisa, F. Becattini), Lecture notes in physics 987 (2021) 53. DOI: 10.1007/978-3-030-71427-7_3 .	
19.	H. L. Chen, X.-G. Huang, J. F. Liao, <i>QCD Phase Structure Under Rotation</i> , in Strongly interacting matter under rotation (eds. J. Liao, M. Lisa, F. Becattini), Lecture notes in physics 987 (2021) 53. DOI: 10.1007/978-3-030-71427-7_11 .	
20.	M. N. Chernodub, <i>Inhomogeneous confining-deconfining phases in rotating plasmas</i> , Phys. Rev. D 103 (2021) 054027. DOI: 10.1103/PhysRevD.103.054027 .	
21.	A. Ayala, L. A. Hernández, K. Raya, R. Zamora, <i>Fermion propagator in a rotating environment</i> , Phys. Rev. D 103 (2021) 076021. DOI: 10.1103/PhysRevD.103.076021 .	
22.	S.-S. Wan, M. Ruggieri M, <i>The Chiral Phase Transitions of Helical Matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .	
23.	Y. Fujimoto, K. Fukushima, Y. Hidaka, <i>Deconfining phase boundary of rapidly rotating hot and dense matter and analysis of moment of inertia</i> , Phys. Lett. B. 816 (2021) 136184. DOI: 10.1016/j.physletb.2021.136184 .	
24.	V. I. Zakharov, G. Yu. Prokhorov, O. V. Teryaev, <i>Polarization of Elementary Particles in Heavy-Ion Collisions as a Manifestation of Quantum Field Theory Anomalies</i> , Phys. Part. Nuclei 52 (2021) 522. DOI: 10.1134/S1063779621040614 .	
25.	A. Azizi, H. E. Camblong, A. Chakraborty, C. R. Ordóñez, M. O. Scully, <i>Acceleration radiation of an atom freely falling into a Kerr black hole and near-horizon conformal quantum mechanics</i> , Phys. Rev. D 104 (2021) 065006. DOI: 10.1103/PhysRevD.104.065006 .	
26.	A. Palermo, M. Buzzegoli, F. Becattini, <i>Exact equilibrium distributions in statistical quantum field theory with rotation and acceleration: Dirac field</i> , J. High Energy Phys. 2021 (2021) 77. DOI: 10.1007/JHEP10(2021)077 .	
27.	R.-H. Fang, <i>Rotating chiral fermion system in the uniform magnetic field</i> , Symmetry 14 (2022) 1106. DOI: 10.3390/sym14061106 .	

	28.	J. Nissinen, G. E. Volovik, <i>Anomalous chiral transport with vorticity and torsion: Cancellation of two mixed gravitational anomaly currents in rotating chiral p plus ip Weyl condensates</i> , Phys. Rev. D 106 (2022) 045022. DOI: 10.1103/PhysRevD.106.045022 .			
	29.	G. M. Hossain, S. Mandal, <i>Equation of states in the curved spacetime of slowly rotating degenerate stars</i> , J. Cosmol. Astropart. Phys. 2022 (2022) 008. DOI: 10.1088/1475-7516/2022/10/008 .			
	30.	V. Balakumar, R. P. berner, E. Winstanley, <i>Quantization of a charged scalar field on a charged black hole background</i> , Phys. Rev. D 106 (2022) 125013. DOI: 10.1103/PhysRevD.106.125013 .			
	31.	M. Buzzegoli, K. Tuchin, <i>Bound states and electromagnetic radiation of relativistically rotating cylindrical wells</i> , Nucl. Phys. A 1030 (2023) 122577. DOI: 10.1016/j.nuclphysa.2022.122577 .			
	32.	S.-Y. Yang, R.-H. Fang, D.-F. Hou, H.-C. Ren, <i>Axial chiral vortical effect in a sphere with finite size effect</i> , Chinese Phys. C 47 (2023) 034106. DOI: 10.1088/1674-1137/acac6d .			
	33.	M. N. Chernodub, V. A. Goy, A. V. Molochkov, <i>Inhomogeneity of a rotating gluon plasma and the Tolman-Ehrenfest law in imaginary time: Lattice results for fast imaginary rotation</i> , Phys. Rev. D 107 (2023) 114502. DOI: 10.1103/PhysRevD.107.114502 .			
	34.	S. M. A. T. Mehr, F. Taghinavaz, <i>Chiral phase transition of a dense, magnetized and rotating quark matter</i> , Ann. Phys. 454 (2023) 169357. DOI: 10.1016/j.aop.2023.169357 .			
	35.	H. M. Ghalati, N. Sadooghi, <i>Magnetic dual chiral density wave phase in rotating cold quark matter</i> , Phys. Rev. D 108 (2023) 054032. DOI: 10.1103/PhysRevD.108.054032 .			
	36.	I. I. Gaspar, L. A. Hernandez, R. Zamora, <i>Chiral symmetry restoration in a rotating medium</i> , Phys. Rev. D 108 (2023) 094020. DOI: 10.1103/PhysRevD.108.094020 .			
	37.	S. M. A. T. Mehr, <i>Chiral symmetry breaking and phase diagram of dual chiral density wave in a rotating quark matter</i> , Phys. Rev. D 108 (2023) 094042. DOI: 10.1103/PhysRevD.108.094042 .			
	38.	M. Edmonds, A. Flachi, M. Pasini, <i>Quantum vacuum effects in nonrelativistic quantum field theory</i> , Phys. Rev. D 108 (2023) L121702. DOI: 10.1103/PhysRevD.108.L121702 .			
	39.	G. Chen, Y. Q. Wang, L. Y. Jian, Y. Zhou, S. M. Liu, <i>Quantum identity authentication based on the extension of quantum rotation</i> , EPJ Quantum Tech. 10 (2023) 11. DOI: 10.1140/epjqt/s40507-023-00170-5 .			
	40.	R. A. Abramchuk, M. Selch, <i>Non-perturbative suppression of chiral vortical effect in hot (s)QGP for hyperons spin polarization in heavy ion collisions</i> , Eur. Phys. J. C 84 (2024) 107. DOI: 10.1140/epjc/s10052-024-12456-8 .			
	41.	A. Ayala, S. Bernal-Langarica, I. D. Jimenez, I. Maldonado, J. J. Meidna-Serna, J. Rendon, M. E. Yeomans, <i>Relaxation time for the alignment between quark spin and angular velocity in a rotating QCD medium</i> , Phys. Rev. D 109 (2024) 074018. DOI: 10.1103/PhysRevD.109.074018 .			
	42.	V. V. Braguta, M. N. Chernodub, A. A. Roenko, D. A. Sychev, <i>Negative moment of inertia and rotational instability of gluon plasma</i> , Phys. Lett. B 852 (2024) 138604. DOI: 10.1016/j.physletb.2024.138604 .			
	43.	V. V. Braguta, M. N. Chernodub, I. E. Kudrov, A. A. Roenko, D. A. Sychev, <i>Negative Barnett effect, negative moment of inertia of the gluon plasma, and thermal evaporation of the chromomagnetic condensate</i> , Phys. Rev. D 110 (2024) 014511. DOI: 10.1103/PhysRevD.110.014511 .			
	44.	V. V. Braguta, M. N. Chernodub, A. A. Roenko, <i>New mixed inhomogeneous phase in vortical gluon plasma: First-principle results from rotating $SU(3)$ lattice gauge theory</i> , Phys. Lett. B 855 (2024) 138783. DOI: 10.1016/j.physletb.2024.138783 .			
	45.	E. Siri, N. Sadooghi, <i>Thermodynamic properties of a relativistic Bose gas under rigid rotation</i> , Phys. Rev. D 110 (2024) 036016. DOI: 10.1103/PhysRevD.110.036016 .			
	46.	M. Buzzegoli, K. Tuchin, <i>Causal fermion states in magnetic field in a relativistic rotating frame and electromagnetic radiation by a rapidly rotating charge</i> , Phys. Rev. D 110 (2024) 076013. DOI: 10.1103/PhysRevD.110.076013 .			
	47.	R. A. Abramchuk, <i>Nonperturbative suppression of chiral effects in hot QGP for Λ/Λ-hyperons spin polarization in heavy-ion collisions</i> , Int. J. Mod. Phys. E 33 (2024) 2442004. DOI: 10.1142/S0218301324420047 .			
	48.	M. Buzzegoli, A. Palermo, <i>Emergent Canonical Spin Tensor in the Chiral-Symmetric Hot QCD</i> , Phys. Rev. Lett. 133 (2024) 262301. DOI: 10.1103/PhysRevLett.133.262301 .			
V.		V. E. Ambruș, E. Winstanley, <i>Fermions on AdS</i> , Springer Proceedings in Physics 170 (2015) 331-336. DOI: 10.1007/978-3-319-20046-0_39 .	2	2	1,0
	1.	L. Ortiz, N. Bretón, <i>Aspects of the BTZ black hole interacting with fields</i> , Mod. Phys. Lett. A 34 (2019) 1950251. DOI: 10.1142/S0217732319502511 .			
	2.	Rojas, WA; Arenas, JR, <i>Entanglement entropy for a Dirac field in a black shell</i> , Phys. Rev. D, Vol. 104, No. 9, 105006 (2021). DOI: 10.1103/PhysRevD.104.105006 .			
VI.		V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann models based on Gauss quadratures</i> , Int. J. Mod. Phys. C 25 (2014) 1441011. DOI: 10.1142/S0129183114410113 .	2	2	1,0
	1.	T. Biciușcă, A. Horga, V. Sofonea, <i>Simulation of liquid-vapour phase separation on GPUs using Lattice Boltzmann models with off-lattice velocity sets</i> , CR Mecanique 343 (2015) 580. DOI: 10.1016/j.crme.2015.07.011 .			

	2.	S. Khajepor, B. X. Chen, <i>Multipseudopotential interaction: A consistent study of cubic equations of state in lattice Boltzmann models</i> , Phys. Rev. E 93 (2016) 013303. DOI: 10.1103/PhysRevE.93.013303 .			
VII.		V. E. Ambruș, V. Sofonea, <i>Implementation of diffuse reflection boundary conditions using lattice Boltzmann models based on Gauss-Laguerre quadratures</i> , Phys. Rev. E 89 (2014) 041301(R). DOI: 10.1103/PhysRevE.89.041301 .	16	2	8,0
	1.	Y. Shi, Y. W. Yap, J. E. Sader, <i>Linearized lattice Boltzmann method for micro- and nanoscale flow and heat transfer</i> , Phys. Rev. E 92 (2015) 013307. DOI: 10.1103/PhysRevE.92.013307 .			
	2.	T. Biciușcă, A. Horga, V. Sofonea, <i>Simulation of liquid-vapour phase separation on GPUs using Lattice Boltzmann models with off-lattice velocity sets</i> , CR Mecanique 343 (2015) 580. DOI: 10.1016/j.crme.2015.07.011 .			
	3.	S. Khajepor, B. X. Chen, <i>Multipseudopotential interaction: A consistent study of cubic equations of state in lattice Boltzmann models</i> , Phys. Rev. E 93 (2016) 013303. DOI: 10.1103/PhysRevE.93.013303 .			
	4.	C. Feuchter, W. Schleifenbaum, <i>High-order lattice Boltzmann models for wall-bounded flows at finite Knudsen numbers</i> , Phys. Rev. E 94 (2016) 013304. DOI: 10.1103/PhysRevE.94.013304 .			
	5.	S. K. Singh, C. Thantapanally, S. Ansumali, <i>Gaseous microflow modeling using the Fokker-Planck equation</i> , Phys. Rev. E 94 (2016) 063307. DOI: 10.1103/PhysRevE.94.063307 .			
	6.	W. Su, S. Lindsay, H. Liu, L. Wu, <i>Comparative study of the discrete velocity and lattice Boltzmann methods for rarefied gas flows through irregular channels</i> , Phys. Rev. E 96 (2017) 023309, DOI: 10.1103/PhysRevE.96.023309 .			
	7.	G. Silva, <i>Consistent lattice Boltzmann modeling of low-speed isothermal flows at finite Knudsen numbers in slip-flow regime. II. Application to curved boundaries</i> , Phys. Rev. E 98 (2018) 023302, DOI: 10.1103/PhysRevE.98.023302 .			
	8.	Y. Shi, D. R. Ladiges, J. E. Sader, <i>Origin of spurious oscillations in lattice Boltzmann simulations of oscillatory noncontinuum gas flows</i> , Phys. Rev. E 100 (2019) 053317. DOI: 10.1103/PhysRevE.100.053317 .			
	9.	O. V. Ilyin, <i>Gaussian lattice Boltzmann method and its applications to rarefied flows</i> , Phys. Fluids 32 (2020) 012007. DOI: 10.1063/1.5126306 .			
	10.	V. V. Aristov, O. V. Ilyin, O. A. Rogozin, <i>Kinetic multiscale scheme based on the discrete-velocity and lattice-Boltzmann methods</i> , J. Comput. Sci. 40 (2020) 101064. DOI: 10.1016/j.jocs.2019.101064 .			
	11.	Y. Shi, L. Wu, X. Shan, <i>Accuracy of high-order lattice Boltzmann method for non-equilibrium gas flow</i> , J. Fluid Mech. 907 (2021) A25. DOI: 10.1017/jfm.2020.813 .			
	12.	P. Lallemand, L.-S. Luo, M. Krafczyk, W.-A. Yong, <i>The Lattice Boltzmann Method for Nearly Incompressible Flows</i> , J. Comput. Phys. 431 (2021) 109713. DOI: 10.1016/j.jcp.2020.109713 .			
	13.	O. Ilyin, <i>Nonclassical Heat Transfer in a Microchannel and a Problem for Lattice Boltzmann Equations</i> , Comput. Math. Math. Phys. 63 (2023) 2297. DOI: 10.1134/S0965542523120126 .			
	14.	O. Ilyin, <i>On Accuracy of the Lattice Boltzmann Equations of Low and High Orders as Applied to Slow Isothermal Microflows</i> , Comput. Math. Phys. 64 (2024) 2131-2140. DOI: 10.1134/S0965542524701045 .			
	15.	M. Madadi, J. T. Johnson, Y. Shi, J. E. Sader, <i>Closure equation and higher-order moment relations in the Gauss-Hermite lattice Boltzmann method</i> , Phys. Rev. E 110 (2024) 055301. DOI: 10.1103/PhysRevE.110.055301 .			
	16.	O. Ilyin, <i>Lattice Boltzmann Shakhov kinetic models for variable Prandtl number on Cartesian lattices</i> , Phys. Rev. E 110 (2024) 065304. DOI: 10.1103/PhysRevE.110.065304 .			
VIII.		V. E. Ambruș, V. Sofonea, <i>Application of lattice Boltzmann models based on Laguerre quadratures to force-driven flows of rarefied gases</i> , Interfacial Phenomena and Heat Transfer 4 (2014) 235. DOI: 10.1615/InterfacPhenomHeatTransfer.2015011655 .	1	2	0,5
	1.	S. Khajepor, B. X. Chen, <i>Multipseudopotential interaction: A consistent study of cubic equations of state in lattice Boltzmann models</i> , Phys. Rev. E 93 (2016) 013303. DOI: 10.1103/PhysRevE.93.013303 .			
IX.		B. Piaud, S. Blanco, R. Fournier, V. E. Ambruș, V. Sofonea, <i>Gauss quadratures - the keystone of lattice Boltzmann models</i> , Int. J. Mod. Phys. C 25 (2014) 1340016. DOI: 10.1142/S0129183113400160 .	4	5	0,8
	1.	T. Biciușcă, A. Horga, V. Sofonea, <i>Simulation of liquid-vapour phase separation on GPUs using Lattice Boltzmann models with off-lattice velocity sets</i> , C. R. Mecanique 343 (2015) 580. DOI: 10.1016/j.crme.2015.07.011 .			
	2.	S. A. Hosseini, N. Darabiha, D. Thevenin, <i>Compressibility in lattice Boltzmann on standard stencils: effects of deviation from reference temperature</i> , Phil. Trans. Royal Soc. A 378 (2020) 20190399. DOI: 10.1098/rsta.2019.0399 .			
	3.	Terree, G; El Hafi; Blanco, S; et al., <i>Addressing the gas kinetics Boltzmann equation with branching-path statistics</i> , Phys. Rev. E, Vol. 105, No. 2, 025305 (2022). DOI: 10.1103/PhysRevE.105.025305 .			
	4.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
X.		V. E. Ambruș, <i>Dirac fermions on rotating space-times</i> , PhD thesis, 2014 (http://etheses.whiterose.ac.uk/7527/)	2	1	2,0

	1.	C. G. Beneventano, I. V. Fialkovsky, E. M. Santangelo, <i>Zeros of combinations of Bessel functions and the mean charge of graphene nanodots</i> , Theor. Math. Phys. 187 (2016) 497-510. DOI: 10.1134/S004057791604005X .			
	2.	F. Becattini, M. Buzzegoli, A. Palermo, <i>Exact equilibrium distributions in statistical quantum field theory with rotation and acceleration: scalar field</i> , J. High Energy Phys. 2021 (2021) 101. DOI: 10.1007/JHEP02(2021)101 .			
XI.		V. E. Ambruș, E. Winstanley, <i>Dirac fermions on an anti-de Sitter background</i> , AIP Conf. Proc. 1634 (2014) 40-49. DOI: 10.1063/1.4903012 .	3	2	1,5
	1.	C. Kent, E. Winstanley, <i>The global rotating scalar field vacuum on anti-de Sitter space-time</i> , Phys. Lett. B 740 (2015) 188-191. DOI: 10.1016/j.physletb.2014.11.047 .			
	2.	G. Z. Fu, C. C. Xing, W. Na, <i>The scattering of Dirac spinors in rotating spheroids</i> , Eur. Phys. J. C 80 (2020) 582. DOI: 10.1140/epjc/s10052-020-8140-2 .			
	3.	T. Morley, P. Taylor, E. Winstanley, <i>Quantum field theory on global anti-de Sitter space-time with Robin boundary conditions</i> , Class. Quantum Grav. 38 (2020) 035009. DOI: 10.1088/1361-6382/aba58a .			
XII.		P. Fede, V. Sofonea, R. Fournier, S. Blanco, O. Simonin, G. Lepoutere, V. E. Ambruș, <i>Lattice Boltzmann model for predicting the deposition of inertial particles transported by a turbulent flow</i> , Int. J. Multiph. Flow 76 (2015) 187-197. DOI: 10.1016/j.ijmultiphaseflow.2015.07.004 .	5	6	0,833
	1.	F. Laenen, G. Krstulovic, J. Bec, <i>A lattice method for the Eulerian simulation of heavy particle suspensions</i> , C. R. Mechanique 344 (2016) 672-683. DOI: 10.1016/j.crme.2016.05.004 .			
	2.	S. Rodriguez-Romo, O. Ibanez-Orozco, A. Sosa-Herrera, <i>A Lattice Boltzmann Model for Oscillating Reaction-Diffusion</i> , J. Non-equil. Thermody. 41 (2016) 249-256. DOI: 10.1515/jnet-2015-0050 .			
	3.	D. Mitra, N. E. L. Haugen, I. Rogachevskii, <i>Turbophoresis in forced inhomogeneous turbulence</i> , Eur. Phys. J. Plus 133 :35 (2018), DOI: 10.1140/epjp/i2018-11865-7 .			
	4.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	5.	H. C. Miao, H. C. Yin, J. L. Cui, H. Pu, M. Dong, L. Mu, <i>Investigation of microparticle deposition and removal behavior using hybrid thermal Lattice Boltzmann method</i> , Powder Tech. 427 (2023) 118750. DOI: 10.1016/j.powtec.2023.118750 .			
XIII.		V. E. Ambruș, E. Winstanley, <i>Renormalised fermion vacuum expectation values on anti-de Sitter space-time</i> , Phys. Lett. B 749 (2015) 597-602, DOI: 10.1016/j.physletb.2015.08.045 .	13	2	6,5
	1.	A. Belokogne, A. Folacci, J. Queva, <i>Stueckelberg massive electromagnetism in de Sitter and anti-de Sitter spacetimes: Two-point functions and renormalized stress-energy tensors</i> , Phys. Rev. D 94 (2016) 105028. DOI: 10.1103/PhysRevD.94.105028 .			
	2.	Buhl-Mortensen, M. de Leeuw, A. C. Ipsen, C. Kristjansen, M. Wilhelm, <i>A Quantum Check of AdS/dCFT</i> , J. High Energy Phys. (2017) 2017:98 . DOI: 10.1007/JHEP01(2017)098 .			
	3.	M. B. Frob, M. T. Tehrani, <i>Green's functions and Hadamard parametrices for vector and tensor fields in general linear covariant gauges</i> , Phys. Rev. D 97 (2018) 025022. DOI: 10.1103/PhysRevD.97.025022 .			
	4.	S. Bellucci, A. A. Saharian, D. H. Simonyan, V. V. Vardanyan, <i>Fermionic currents in topologically nontrivial braneworlds</i> , Phys. Rev. D 98 (2018) 085020. DOI: 10.1103/PhysRevD.98.085020 .			
	5.	S. Bellucci, A. A. Saharian, H. G. Sargsyan, V. V. Vardanyan, <i>Fermionic vacuum currents in topologically nontrivial braneworlds: Two-brane geometry</i> , Phys. Rev. D 101 (2020) 045020. DOI: 10.1103/PhysRevD.101.045020 .			
	6.	A. G. M. Lewis, <i>Hadamard renormalization of a 2-dimensional Dirac field</i> , Phys. Rev. D 101 (2020) 125019. DOI: 10.1103/PhysRevD.101.125019 .			
	7.	A. A. Saharian, <i>Quantum Vacuum Effects in Braneworlds on AdS Bulk</i> , Universe 6 (2020) 181. DOI: 10.3390/universe6100181 .			
	8.	A. G. M. Lewis, G. Vidal, <i>Classical Simulations of Quantum Field Theory in Curved Spacetime I: Fermionic Hawking-Hartle Vacua from a Staggered Lattice Scheme</i> , Quantum 4 (2020) 351. DOI: 10.22331/q-2020-10-28-351 .			
	9.	T. Morley, P. Taylor, E. Winstanley, <i>Quantum field theory on global anti-de Sitter space-time with Robin boundary conditions</i> , Class. Quantum Grav. 38 (2020) 035009. DOI: 10.1088/1361-6382/aba58a .			
	10.	S. Bellucci, W. Oliveira dos Santos, E. R. Bezerra de Mello, A. A. Saharian, <i>Vacuum fermionic currents in braneworld models on AdS bulk with a cosmic string</i> , J. High Energy Phys. 2021 (2021) 190. DOI: 10.1007/JHEP02(2021)190 .			
	11.	G. Y. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Gravitational chiral anomaly for spin 3/2 field interacting with spin 1/2 field</i> , Phys. Rev. D 106 (2022) 025022. DOI: 10.1103/PhysRevD.106.025022 .			
	12.	B. A. Juarez-Aubry, M. C. Mamani-Leqque, <i>Renormalisation in maximally symmetric spaces and semiclassical gravity in Anti-de Sitter spacetime</i> , Class. Quant. Grav. 42 (2025) 085009. DOI: 10.1088/1361-6382/adc535 .			
	13.	T. A. Petrosyan, A. A. Grigoryan, A. A. Saharian, <i>Topological Casimir effect for fermionic condensate in AdS spacetime with compact dimensions</i> , EPL 149 (2025) 64001. DOI: 10.1209/0295-5075/adb18 .			

XIV.	V. E. Ambruș, E. Winstanley, <i>Massless rotating fermions inside a cylinder</i> , AIP Conf. Proc. 1694 (2015) 020011, DOI: 10.1063/1.4937237 .	1	2	0,5
	1. M. de Montigny, S. Zare, H. Hassanabadi, <i>Fermi field and Dirac oscillator in a Som-Raychaudhuri space-time</i> , Gen. Relativ. Gravit. 50 (2018) 47. DOI: 10.1007/s10714-018-2370-8 .			
XV.	V. E. Ambruș, E. Winstanley, <i>Rotating fermions inside a cylindrical boundary</i> , Phys. Rev. D 93 (2016) 104014. DOI: 10.1103/PhysRevD.93.104014 .	54	2	27,0
	1. K. Mameda, A. Yamamoto, <i>Magnetism and rotation in relativistic field theory</i> , Prog. Theor. Exp. Phys. (2016) 093B05. DOI: 10.1093/ptep/ptw128 .			
	2. S. Ebihara, K. Fukushima, K. Mameda, <i>Boundary effects and gapped dispersion in rotating fermionic matter</i> , Phys. Lett. B 764 (2017) 94-99. DOI: 10.1016/j.physletb.2016.11.010 .			
	3. N. Nicolaevici, <i>Bouncing Dirac particles: compatibility between MIT boundary conditions and Thomas precession</i> , Eur. Phys. J. Plus 132 (2017) 21. DOI: 10.1140/epjp/i2017-11297-y .			
	4. M. N. Chernodub, S. Gongyo, <i>Interacting fermions in rotation: chiral symmetry restoration, moment of inertia and thermodynamics</i> , JHEP 01 (2017) 136. DOI: 10.1007/JHEP01(2017)136 .			
	5. M. N. Chernodub, S. Gongyo, <i>Effects of rotation and boundaries on chiral symmetry breaking of relativistic fermions</i> , Phys. Rev. D 95 (2017) 096006. DOI: 10.1103/PhysRevD.95.096006 .			
	6. H.-L. Chen, K. Fukushima, X.-G. Huang, K. Mameda, <i>Surface magnetic catalysis</i> , Phys. Rev. D 96 (2017) 054032. DOI: 10.1103/PhysRevD.96.054032 .			
	7. M. Buzzegoli, E. Grossi, F. Becattini, <i>General equilibrium second-order hydrodynamic coefficients for free quantum fields</i> , JHEP 10 (2017) 091. DOI: 10.1007/JHEP10(2017)091 .			
	8. M. N. Chernodub, S. Gongyo, <i>Edge states and thermodynamics of rotating relativistic fermions under magnetic field</i> , Phys. Rev. D 96 (2017) 096014. DOI: 10.1103/PhysRevD.96.096014 .			
	9. L. C. N. Santos, C. C. Barros Jr, <i>Relativistic quantum motion of spin-0 particles under the influence of non-inertial effects in the cosmic string space-time</i> , Eur. Phys. J. C 78 (2018) 13. DOI: 10.1140/epjc/s10052-017-5476-3 .			
	10. M. A. Zubkov, <i>Hall effect in the presence of rotation</i> , EPL 21 (2018) 47001. DOI: 10.1209/0295-5075/121/47001 .			
	11. R. L. Vitoria, K. Bakke, <i>Rotating effects on the scalar field in the cosmic string spacetime, in the spacetime with space-like dislocation and in the spacetime with a spiral dislocation</i> , Eur. Phys. J. C 78 (2018) 175. DOI: 10.1140/epjc/s10052-018-5658-7 .			
	12. L. C. N. Santos, C. C. Barros Jr, <i>Rotational effects on the Casimir energy in the space-time with one extra compactified dimension</i> , Int. J. Mod. Phys. A 20 (2018) 1850122. DOI: 10.1142/S0217751X18501221 .			
	13. M. Chernodub, A. Cortijo, K. Landsteiner, <i>The Zilch vortical effect</i> , Phys. Rev. D 98 (2018) 065016. DOI: 10.1103/PhysRevD.98.065016 .			
	14. D.-L. Yang, <i>Side-jump induced spin-orbit interaction of chiral fluids from kinetic theory</i> , Phys. Rev. D 98 (2018) 076019. DOI: 10.1103/PhysRevD.98.076019 .			
	15. R. Abramchuk, Z. V. Zhaidukov, M. A. Zubkov, <i>Anatomy of the chiral vortical effect</i> , Phys. Rev. D 98 (2018) 076013. DOI: 10.1103/PhysRevD.98.076013 .			
	16. M. Buzzegoli, F. Becattini, <i>General thermodynamic equilibrium with axial chemical potential for the free Dirac field</i> , JHEP 12 (2018) 2. DOI: 10.1007/JHEP12(2018)002 .			
	17. A. Coutant, P. Millington, <i>Quasi-normal modes and fermionic vacuum decay around a Kerr black hole</i> , Class. Quantum Grav. 36 (2019) 035005. DOI: 10.1088/1361-6382/aaf679 .			
	18. M. Hosseini, H. Hassanabadi, S. Hassanabadi, P. Sedaghatnia, <i>Klein-Gordon oscillator in the presence of a Cornell potential in the cosmic string spacetime</i> , Int. J. Geom. Methods Mod. Phys. 16 (2019) 1950054. DOI: 10.1142/S0219887819500543 .			
	19. L. Wang, Y. Jiang, L. He, P. Zhuang, <i>Chiral Vortices and Pseudoscalar Condensation due to Rotation</i> , Phys. Rev. D 100 (2019) 114009. DOI: 10.1103/PhysRevD.100.114009 .			
	20. Z. Zhang, C. Shi, X. Luo, H.-S. Zong, <i>Chiral phase transition in a rotating sphere</i> , Phys. Rev. D 101 (2020) 074036. DOI: 10.1103/PhysRevD.101.074036 .			
	21. F. Ahmed, <i>Aharonov-Bohm and non-inertial effects on a Klein-Gordon oscillator with potential in the cosmic string space-time with a spacelike dislocation</i> , Chinese J. Phys. 66 (2020) 587-595. DOI: 10.1016/j.cjph.2020.06.012 .			
	22. Z. Zhang, C. Shi, X. Luo, H.-S. Zong, <i>Rotating fermions inside a spherical boundary</i> , Phys. Rev. D 102 (2020) 065002. DOI: 10.1103/PhysRevD.102.065002 .			
	23. Z. Zhang, C. Shi, X.-T. He, X. Luo, H.-S. Zong, <i>Chiral phase transition inside a rotating cylinder within the Nambu—Jona-Lasinio model</i> , Phys. Rev. D 102 (2020) 114023. DOI: 10.1103/PhysRevD.102.114023 .			
	24. H. L. Chen, X.-G. Huang, J. F. Liao, <i>QCD Phase Structure Under Rotation</i> , in Strongly interacting matter under rotation (eds. J. Liao, M. Lisa, F. Becattini), Lecture notes in physics 987 (2021) 349. DOI: 10.1007/978-3-030-71427-7_11 .			
	25. G. Cao, <i>Charged rho superconductor in the presence of magnetic field and rotation</i> , Eur. Phys. C. 81 (2021) 148. DOI: 10.1140/epjc/s10052-021-08900-8 .			

26.	M. N. Chernodub, <i>Inhomogeneous confining-deconfining phases in rotating plasmas</i> , Phys. Rev. D 103 (2021) 054027. DOI: 10.1103/PhysRevD.103.054027 .
27.	A. Ayala, L. A. Hernández, K. Raya, R. Zamora, <i>Fermion propagator in a rotating environment</i> , Phys. Rev. D 103 (2021) 076021. DOI: 10.1103/PhysRevD.103.076021 .
28.	S.-S. Wan, M. Ruggieri, <i>The Chiral Phase Transitions of Helical Matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .
29.	Y. Fujimoto, K. Fukushima, Y. Hidaka, <i>Deconfining phase boundary of rapidly rotating hot and dense matter and analysis of moment of inertia</i> , Phys. Lett. B. 816 (2021) 136184. DOI: 10.1016/j.physletb.2021.136184 .
30.	A. Palermo, M. Buzzegoli, F. Becattini, <i>Exact equilibrium distributions in statistical quantum field theory with rotation and acceleration: Dirac field</i> , J. High Energy Phys. 2021 (2021) 77. DOI: 10.1007/JHEP10(2021)077 .
31.	Rohim, A; Yamamoto, K, <i>Effects of chiral MIT boundary conditions for a Dirac particle in a box</i> , Prog. Theor. Exp. Phys., 2021 (2021) 11. DOI: 10.1093/ptep/ptab122 .
32.	N. Sadooghi, S. M. A. Tabatabaee, F. Taghinavaz, <i>Inverse magneto-rotational catalysis and the phase diagram of a rotating hot and magnetized quark matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .
33.	M. H. Wei, Y. Jiang, M. Huang, <i>Mass splitting of vector mesons and spontaneous spin polarization under rotation</i> , Chinese Phys. C 46 (2022) 024102. DOI: 10.1088/1674-1137/ac338e .
34.	F. Ahmed, <i>Effects of rotating frames of reference and Cornell-type potential on modified quantum oscillator field in magnetic cosmic string space-time</i> , Int. J. Mod. Phys. A 37 (2022) 2250122. DOI: 10.1142/S0217751X22501226 .
35.	G. M. Hossain, S. Mandal, <i>Equation of states in the curved spacetime of slowly rotating degenerate stars</i> , J. Cosmol. Astropart. Phys. 2022 (2022) 008. DOI: 10.1088/1475-7516/2022/10/008 .
36.	F. Sun, A. P. Huang, <i>Properties of strange quark matter under strong rotation</i> , Phys. Rev. D 106 (2023) 076007. DOI: 10.1103/PhysRevD.106.076007 .
37.	F. Ahmed, <i>Gravitational Field Effects Produced by Topologically Non-Trivial Geometry and Rotating Frames Subject to a Coulomb-Type Scalar Potential</i> , J. Exp. Theor. Phys. 135 (2022) 655. DOI: 10.1134/S1063776122110140 .
38.	F. Ahmed, <i>Non-inertial effects on relativistic scalar massive charged bosons in a topologically nontrivial space-time and Aharonov-Bohm effect</i> , Int. J. Mod. Phys. A 20 (2022) 2350011. DOI: 10.1142/S0219887823500111 .
39.	A. Rohim, A. S. Adam, K. Yamamoto, <i>Massive fermion between two parallel chiral plates</i> , Progr. Theor. Exp. Phys. 2023 (2023) 013B05. DOI: 10.1093/ptep/ptac172 .
40.	M. Buzzegoli, K. Tuchin, <i>Bound states and electromagnetic radiation of relativistically rotating cylindrical wells</i> , Nucl. Phys. A 1030 (2023) 122577. DOI: 10.1016/j.nuclphysa.2022.122577 .
41.	L. C. N. Santos, F. M. da Silva, C. E. Mota, V. B. Bezerra, <i>Some remarks on scalar particles under the influence of noninertial effects in a spacetime with a screw dislocation</i> , Eur. Phys. J. Plus 138 (2023) 174. DOI: 10.1140/epjp/s13360-023-03783-y .
42.	M. Buzzegoli, J. D. Kroth, K. Tuchin, N. Vijayakumar, <i>Synchrotron radiation by slowly rotating fermions</i> , Phys. Rev. D 107 (2023) L051901. DOI: 10.1103/PhysRevD.107.L051901 .
43.	G. Y. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Gravitational chiral anomaly and anomalous transport for fields with spin 3/2</i> , Phys. Lett. B 840 (2023) 137839. DOI: 10.1016/j.physletb.2023.137839 .
44.	M. N. Chernodub, V. A. Goy, A. V. Molochkov, <i>Inhomogeneity of a rotating gluon plasma and the Tolman-Ehrenfest law in imaginary time: Lattice results for fast imaginary rotation</i> , Phys. Rev. D 107 (2023) 114502. DOI: 10.1103/PhysRevD.107.114502 .
45.	S. M. A. T. Mehr, F. Taghinavaz, <i>Chiral phase transition of a dense, magnetized and rotating quark matter</i> , Ann. Phys. 454 (2023) 169357. DOI: 10.1016/j.aop.2023.169357 .
46.	H. M. Ghalati, N. Sadooghi, <i>Magnetic dual chiral density wave phase in rotating cold quark matter</i> , Phys. Rev. D 108 (2023) 054032. DOI: 10.1103/PhysRevD.108.054032 .
47.	I. I. Gaspar, L. A. Hernandez, R. Zamora, <i>Chiral symmetry restoration in a rotating medium</i> , Phys. Rev. D 108 (2023) 094020. DOI: 10.1103/PhysRevD.108.094020 .
48.	M. Buzzegoli, J. D. Kroth, K. Tuchin, N. Vijayakumar, <i>Photon radiation by relatively slowly rotating fermions in magnetic field</i> , Phys. Rev. D 108 (2023) 096014. DOI: 10.1103/PhysRevD.108.096014 .
49.	K. Mameda, K. Takizawa, <i>Deconfinement transition in the revolving bag model</i> , Phys. Lett. B 847 (2023) 138317. DOI: 10.1016/j.physletb.2023.138317 .
50.	M. Buzzegoli, K. Tuchin, <i>Electromagnetic radiation at extreme angular velocity</i> , J. High Energy Phys. 12 (2023) 113. DOI: 10.1007/JHEP12(2023)113 .
51.	A. Ayala, S. Bernal-Langarica, I. D. Jimenez, I. Maldonado, J. J. Meidna-Serna, J. Rendon, M. E. Yeomans, <i>Relaxation time for the alignment between quark spin and angular velocity in a rotating QCD medium</i> , Phys. Rev. D 109 (2024) 074018. DOI: 10.1103/PhysRevD.109.074018 .
52.	V. V. Braguta, M. N. Chernodub, A. A. Roenko, D. A. Sychev, <i>Negative moment of inertia and rotational instability of gluon plasma</i> , Phys. Lett. B 852 (2024) 138604. DOI: 10.1016/j.physletb.2024.138604 .

	53.	E. Siri, N. Sadooghi, <i>Thermodynamic properties of a relativistic Bose gas under rigid rotation</i> , Phys. Rev. D 110 (2024) 036016. DOI: 10.1103/PhysRevD.110.036016 .			
	54.	M. Buzzegoli, K. Tuchin, <i>Causal fermion states in magnetic field in a relativistic rotating frame and electromagnetic radiation by a rapidly rotating charge</i> , Phys. Rev. D 110 (2024) 076013. DOI: 10.1103/PhysRevD.110.076013 .			
XVI.		V. E. Ambruș, V. Sofonea, <i>Application of mixed quadrature lattice Boltzmann models for the simulation of Poiseuille flow at non-negligible values of the Knudsen number</i> , J. Comput. Sci. 17 (2016) 403-417, DOI: 10.1016/j.jocs.2016.03.016 .	19	2	9,5
	1.	C. Feuchter, W. Schleifenbaum, <i>High-order lattice Boltzmann models for wall-bounded flows at finite Knudsen numbers</i> , Phys. Rev. E 94 (2016) 013304. DOI: 10.1103/PhysRevE.94.013304 .			
	2.	O. Henrich, T. Kruger, R. W. Nash, D. V. Patil, K. Stratfor, <i>The 24th International Conference on Discrete Simulation of Fluid Dynamics in Edinburgh, Scotland</i> , J. Comput. Sci. 17 (2016) 307. DOI: 10.1016/j.jocs.2016.10.018 .			
	3.	Y. Su, T. Ng, Y. Zhang, J. H. Davidson, <i>Three dimensional thermal diffusion in anisotropic heterogeneous structures simulated by a non-dimensional lattice Boltzmann method with a controllable structure generation scheme based on discrete Gaussian quadrature space and velocity</i> , Int. J. Heat Mass Transf. 108 (2017) 386-401. DOI: 10.1016/j.jheatmasstransfer.2016.12.023 .			
	4.	Z. Zhang, W. Zhao, Q. Zhao, G. Lu, J. Xu, <i>Inlet and outlet boundary conditions for the discrete velocity direction model</i> , Mod. Phys. Lett. B 32 (2018) 1850048. DOI: 10.1142/S0217984918500483 .			
	5.	S.-M. Hou, Z.-H. Li, X.-Y. Jiang, S. Zeng - <i>Numerical study on two-dimensional micro-channel flows using gas-kinetic unified algorithm</i> , Commun. Comput. Phys. 23 (2018) 1393-1414. DOI: 10.4208/cicp.OA-2016-0232 .			
	6.	O. V. Ilyin, <i>Gaussian lattice Boltzmann method and its applications to rarefied flows</i> , Phys. Fluids 32 (2020) 012007. DOI: 10.1063/1.5126306 .			
	7.	V. V. Aristov, O. V. Ilyin, O. A. Rogozin, <i>Kinetic multiscale scheme based on the discrete-velocity and lattice-Boltzmann methods</i> , J. Comput. Sci. 40 (2020) 101064. DOI: 10.1016/j.jocs.2019.10106 .			
	8.	Y. Shi, L. Wu, X. Shan, <i>Accuracy of high-order lattice Boltzmann method for non-equilibrium gas flow</i> , J. Fluid Mech. 907 (2021) A25. DOI: 10.1017/jfm.2020.813 .			
	9.	D. Nabapure, K. R. C. Murthy, <i>DSMC Investigation of Rarefied GasFlow in a Four-Sided Lid Driven Cavity: Effect of Rarefaction and Lid Velocities</i> , J. Comput. Sci. (2020), DOI: 10.1016/j.jocs.2020.101276 .			
	10.	P. Lallemand, L.-S. Luo, M. Krafczyk, W.-A. Yong, <i>The Lattice Boltzmann Method for Nearly Incompressible Flows</i> , J. Comput. Phys. 431 (2021) 109713. DOI: 10.1016/j.jcp.2020.109713 .			
	11.	G. Terree, M. El Hafi, S. Blanco, R. Fournier, J. Dauchet, J. Gautrais, <i>Addressing the gas kinetics Boltzmann equation with branching-path statistics</i> , Phys. Rev. E 105 (2022) 025305. DOI: 10.1103/PhysRevE.105.025305 .			
	12.	H. Akhlaghi, E. Roohi, S. Stefanov, <i>A comprehensive review on micro- and nano-scale gas flow effects: Slip-jump phenomena, Knudsen paradox, thermally-driven flows, and Knudsen pumps</i> , Phys. Rep.: Review section of Phys. Lett. 997 (2023) 1. DOI: 10.1016/j.physrep.2022.10.004 .			
	13.	Y. Su, <i>Mesosopic scale simulations of heat transport in porous structures</i> , Adv. Heat Transf., Adv. Heat Transf. 55 (2023) 121. DOI: 10.1016/bs.aiht.2023.01.001 .			
	14.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	15.	O. V. Ilyin, <i>Nonclassical Heat Transfer in a Microchannel and a Problem for Lattice Boltzmann Equations</i> , Comput. Math. Math. Phys. 63 (2023) 2297. DOI: 10.1134/S0965542523120126 .			
	16.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .			
	17.	S. Busuioc, <i>Mesosopic lattice Boltzmann modeling of dense gas flows in curvilinear geometries</i> , Phys. Rev. Fluids 9 (2024) 053401. DOI: 10.1103/PhysRevFluids.9.053401 .			
	18.	O. Ilyin, <i>On Accuracy of the Lattice Boltzmann Equations of Low and High Orders as Applied to Slow Isothermal Microflows</i> , Comput. Math. Phys. 64 (2024) 2131-2140. DOI: 10.1134/S0965542524701045 .			
	19.	O. Ilyin, <i>Lattice Boltzmann Shakhov kinetic models for variable Prandtl number on Cartesian lattices</i> , Phys. Rev. E 110 (2024) 065304. DOI: 10.1103/PhysRevE.110.065304 .			
XVII.		V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann models based on half-range Gauss-Hermite quadratures</i> , J. Comput. Phys. 316 (2016) 760-788, DOI: 10.1016/j.jcp.2016.04.010 .	26	2	13,0
	1.	G. Silva, V. Semiao, <i>Consistent lattice Boltzmann modeling of low-speed isothermal flows at finite Knudsen numbers in slip-flow regime: Application to plane boundaries</i> , Phys. Rev. E 96 (2017) 013311, DOI: 10.1103/PhysRevE.96.013311 .			
	2.	S.-M. Hou, Z.-H. Li, X.-Y. Jiang, S. Zeng - <i>Numerical study on two-dimensional micro-channel flows using gas-kinetic unified algorithm</i> , Commun. Comput. Phys. 23 (2018) 1393-1414, DOI: 10.4208/cicp.OA-2016-0232 .			

	3.	Hu W.-Q., Z.-H. Li, <i>Investigation on different discrete velocity quadrature rules in gas-kinetic unified algorithm solving Boltzmann model equation</i> , Comput. Math. Appl. 75 (2018) 4179-4200, DOI: 10.1016/j.camwa.2018.03.021 .	
	4.	Y. Shi, D. R. Ladiges, J. E. Sader, <i>Origin of spurious oscillations in lattice Boltzmann simulations of oscillatory noncontinuum gas flows</i> , Phys. Rev. E 100 (2019) 053317. DOI: 10.1103/PhysRevE.100.053317 .	
	5.	O. V. Ilyin, <i>Gaussian lattice Boltzmann method and its applications to rarefied flows</i> , Phys. Fluids 32 (2020) 012007. DOI: 10.1063/1.5126306 .	
	6.	V. V. Aristov, O. V. Ilyin, O. A. Rogozin, <i>Kinetic multiscale scheme based on the discrete-velocity and lattice-Boltzmann methods</i> , J. Comput. Sci. 40 (2020) 101064. DOI: 10.1016/j.jocs.2019.101064 .	
	7.	E. K. Ahangar, S. Fallah-Kharmiani, S. D. Khakhian, L.-P. Wang, <i>A lattice Boltzmann study of rarefied gaseous flow with convective heat transfer in backward facing micro-step</i> , Phys. Fluids 32 (2020) 062005. DOI: 10.1063/5.0008325 .	
	8.	G. Tatsios, A. Tsimpoukis, D. Valougeorgis, <i>The Half-Range Moment Method in Harmonically Oscillating Rarefied Gas Flows</i> , Fluids 6 (2021) 17. DOI: 10.3390/fluids6010017 .	
	9.	Y. Shi, L. Wu, X. Shan, <i>Accuracy of high-order lattice Boltzmann method for non-equilibrium gas flow</i> , J. Fluid Mech. 907 (2021) A25. DOI: 10.1017/jfm.2020.813 .	
	10.	P. Lallemand, L.-S. Luo, M. Krafczyk, W.-A. Yong, <i>The Lattice Boltzmann Method for Nearly Incompressible Flows</i> , J. Comput. Phys. 431 (2021) 109713. DOI: 10.1016/j.jcp.2020.109713 .	
	11.	O. V. Ilyin, <i>Discrete Velocity Boltzmann Model for Quasi-Incompressible Hydrodynamics</i> , Mathematics 9 (2021) 993. DOI: 10.3390/math9090993 .	
	12.	Y. Shi, <i>Velocity discretization for lattice Boltzmann method for noncontinuum bounded gas flows at the micro-and nanoscale</i> , Phys. Fluids 34 (2022) 082013. DOI: 10.1063/5.0096233 .	
	13.	Y. Gan, A. Xu, H. Lai, W. Li, G. Sun, S. Succi, <i>Discrete Boltzmann multi-scale modeling of non-equilibrium multiphase flows</i> , J. Fluid Mech. 951 (2022) A8. DOI: 10.1017/jfm.2022.844 .	
	14.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .	
	15.	Y. Shi, <i>Comparison of different Gaussian quadrature rules for lattice Boltzmann simulations of noncontinuum Couette flows: From the slip to free molecular flow regimes</i> , Phys. Fluids 35 (2023) 072015. DOI: 10.1063/5.0158713 .	
	16.	O. V. Ilyin, <i>Nonclassical Heat Transfer in a Microchannel and a Problem for Lattice Boltzmann Equations</i> , Comput. Math. Math. Phys. 63 (2023) 2297. DOI: 10.1134/S0965542523120126 .	
	17.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .	
	18.	T. Laudadio, N. Matronardi, P. van Dooren, <i>On computing modified moments for half-range Hermite weights</i> , Num. Algorithms 95 (2024) 1435. DOI: 10.1007/s11075-023-01615-9 .	
	19.	S. Busuioc, <i>Mesoscopic lattice Boltzmann modeling of dense gas flows in curvilinear geometries</i> , Phys. Rev. Fluids 9 (2024) 053401. DOI: 10.1103/PhysRevFluids.9.053401 .	
	20.	J. T. Johnson, M. Madadi, D. R. Ladiges, Y. Shi, B. D. Hughes, J. E. Sader, <i>Variational solution to the lattice Boltzmann method for Couette flow</i> , Phys. Rev. E 109 (2024) 055305. DOI: 10.1103/PhysRevE.109.055305 .	
	21.	O. Ilyin, <i>On Accuracy of the Lattice Boltzmann Equations of Low and High Orders as Applied to Slow Isothermal Microflows</i> , Comput. Math. Phys. 64 (2024) 2131-2140. DOI: 10.1134/S0965542524701045 .	
	22.	M. Madadi, J. T. Johnson, Y. Shi, J. E. Sader, <i>Closure equation and higher-order moment relations in the Gauss-Hermite lattice Boltzmann method</i> , Phys. Rev. E 110 (2024) 055301. DOI: 10.1103/PhysRevE.110.055301 .	
	23.	O. Ilyin, <i>Lattice Boltzmann Shakhov kinetic models for variable Prandtl number on Cartesian lattices</i> , Phys. Rev. E 110 (2024) 065304. DOI: 10.1103/PhysRevE.110.065304 .	
	24.	L. Wang, H. Liang, J. R. Xu, <i>A novel Gauss-Jacobi quadrature for multiscale Boltzmann solvers</i> , App. Math. Lett. 159 (2025) 109291. DOI: 10.1016/j.aml.2024.109291 .	
	25.	F. F. Zhang, Y. L. Wang, R. Zhang, J. Guo, T. H. Zhao, S. Liu, C. S. Zhuo, C. W. Zhong, <i>Efficient dual-level parallelism solutions for OpenFOAM-based discrete unified gas kinetic scheme</i> , Adv. Eng. Softw. 201 (2025) 103840. DOI: 10.1016/j.advengsoft.2024.103840 .	
	26.	J. H. Song, L. Miao, F. Chen, Y. B. Gan, A. G. Xu, L. X. Li, <i>Discrete Boltzmann modeling of Kelvin-Helmholtz instability in plasma</i> , Phys. Fluids 37 (2025) 036137. DOI: 10.1063/5.0257901 .	
XVIII.		V. E. Ambruș, I. I. Cotăescu, <i>Maxwell-Jüttner distribution for rigidly rotating flows in spherically</i> 3	2, 1,5

		<i>symmetric spacetimes using the tetrad formalism</i> , Phys. Rev. D 94 (2016) 085022; DOI: 10.1103/PhysRevD.94.085022 .			
	1.	H. I. Okagbue, T. A. Anake, <i>Closed form expression of the quantile function of Maxwell-Boltzmann distribution</i> , Advances and applications în statistics 54 (2019) 179. DOI: 10.17654/AS054020179 .			
	2.	I. I. Cotăescu, <i>Collective classical motion on hyperbolic spacetimes of any dimensions</i> , Mod. Phys. Lett. A 34 (2019) 1950165. DOI: 10.1142/S0217732319501657 .			
	3.	M. Shokri, D. H. Rischke, <i>Linear stability analysis in inhomogeneous equilibrium configurations</i> , Phys. Rev. D 108 (2023) 096029. DOI: 10.1103/PhysRevD.108.096029 .			
XIX.		R. Blaga, V. E. Ambruș, <i>Quadrature-based lattice Boltzmann model for relativistic flows</i> , AIP Conf. Proc. 1796 (2017) 020010; DOI: 10.1063/1.4972358 .	1	2	0,5
	1.	A. Gabbana, D. Simeoni, S. Succi, R. Tripiccone, <i>Relativistic Lattice Boltzmann Methods: Theory and Applications</i> , Phys. Rep. 863 (2020) 1-63. DOI: 10.1016/j.physrep.2020.03.004 .			
XX.		S. Busuioc, V. E. Ambruș, V. Sofonea, <i>Lattice Boltzmann simulation of droplet formation in T-junction geometries</i> , AIP Conf. Proc. 1796 (2017) 020009; DOI: 10.1063/1.4972357 .	2	3	0,666
	1.	S. Khajepor, J. Cui, M. Dewar, B. Chen, <i>A study of wall boundary conditions in pseudopotential lattice Boltzmann models</i> , Computers & Fluids 193 (2019) 103896, DOI: 10.1016/j.compfluid.2018.05.011 .			
	2.	M. Saupe, S. Wiedemeier, G. gastrock, R. Romer, K. Lemke, <i>Flexible Toolbox of High-Precision Microfluidic Modules for Versatile Droplet-Based Applications</i> , Micromachines 15 (2024) 250. DOI: 10.3390/mi15020250 .			
XXI.		V. E. Ambruș, E. Winstanley, <i>Thermal expectation values of fermions on anti-de Sitter space-time</i> , Class. Quantum Grav. 34 (2017) 145010. DOI: 10.1088/1361-6382/aa7863 .	12	2	6,0
	1.	S. Bellucci, A. A. Saharian, V. Vardanyan, <i>Fermionic currents in AdS spacetime with compact dimensions</i> , Phys. Rev. D 96 (2017) 065025, DOI: 10.1103/PhysRevD.96.065025 .			
	2.	S. Bellucci, A. A. Saharian, D. H. Simonyan, V. V. Vardanyan, <i>Fermionic currents in topologically nontrivial braneworlds</i> , Phys. Rev. D 98 (2018) 085020. DOI: 10.1103/PhysRevD.98.085020 .			
	3.	S. Bellucci, A. A. Saharian, H. G. Sargsyan, V. V. Vardanyan, <i>Fermionic vacuum currents in topologically nontrivial braneworlds: Two-brane geometry</i> , Phys. Rev. D 101 (2020) 045020. DOI: 10.1103/PhysRevD.101.045020 .			
	4.	A. G. M. Lewis, <i>Hadamard renormalization of a 2-dimensional Dirac field</i> , Phys. Rev. D 101 (2020) 125019. DOI: 10.1103/PhysRevD.101.125019 .			
	5.	T. Morley, P. Taylor, E. Winstanley, <i>Quantum field theory on global anti-de Sitter space-time with Robin boundary conditions</i> , Class. Quantum Grav. 38 (2020) 035009. DOI: 10.1088/1361-6382/aba58a .			
	6.	S. Bellucci, W. Oliveira dos Santos, E. R. Bezerra de Mello, A. A. Saharian, <i>Vacuum fermionic currents in braneworld models on AdS bulk with a cosmic string</i> , J. High Energy Phys. 2021 (2021) 190. DOI: 10.1007/JHEP02(2021)190 .			
	7.	V. A. Letsios, <i>The eigenmodes for spinor quantum field theory in global de Sitter space-time</i> , J. Math. Phys. 62 (2021) 032303. DOI: 10.1063/5.0038651 .			
	8.	A. A. Saharian, E. R. Bezerra De Mello, A. S. Kotanjyan, T. A. Petrosyan, <i>Fermionic Condensate in de Sitter Spacetime</i> , Astrophysics 64 (2021) 529. DOI: 10.1007/s10511-021-09713-z .			
	9.	E. R. B. de Mello, W. O. dos Santos, A. A. Saharian, <i>Finite temperature charge and current densities around a cosmic string in AdS spacetime with compact dimension</i> , Phys. Rev. D 106 (2022) 125009. DOI: 10.1103/PhysRevD.106.125009 .			
	10.	F. Becattini, D. Roselli, <i>Quantum field corrections to the equation of state of freely streaming matter in the Friedman-Lemaître-Robertson-Walker space-time</i> , Class. Quant. Grav. 40 (2023) 175007. DOI: 10.1088/1361-6382/ace495 .			
	11.	B. A. Juárez-Aubry, M. C. Mamani-Leqqe, <i>Renormalisation in maximally symmetric spaces and semiclassical gravity in Anti-de Sitter spacetime</i> , Class. Quant. Grav. 42 (2025) 085009. DOI: 10.1088/1361-6382/adc535 .			
	12.	T. A. Petrosyan, A. A. Grigoryan, A. A. Saharian, <i>Topological Casimir effect for fermionic condensate in AdS spacetime with compact dimensions</i> , EPL 149 (2025) 64001. DOI: 10.1209/0295-5075/adbc18 .			
XXII.		V. E. Ambruș, E. Winstanley, <i>Quantum corrections in thermal states of fermions on anti-de Sitter space-time</i> , AIP Conf. Proc. 1916 (2017) 020005, DOI: 10.1063/1.5017425 .	2	2	1,0
	1.	A. G. M. Lewis, <i>Hadamard renormalization of a 2-dimensional Dirac field</i> , Phys. Rev. D 101 (2020) 125019. DOI: 10.1103/PhysRevD.101.125019 .			
	2.	T. Morley, P. Taylor, E. Winstanley, <i>Quantum field theory on global anti-de Sitter space-time with Robin boundary conditions</i> , Class. Quantum Grav. 38 (2020) 035009. DOI: 10.1088/1361-6382/aba58a .			
XXIII.		V. E. Ambruș, <i>Quantum non-equilibrium effects in rigidly-rotating thermal states</i> , Phys. Lett. B 4	1		4,0

	771 (2017) 151-156, DOI: 10.1016/j.physletb.2017.05.038 .			
	1. M. de Montigny, S. Zare, H. Hassanabadi, <i>Fermi field and Dirac oscillator in a Som-Raychaudhuri space-time</i> , Gen. Relativ. Gravit. 50 (2018) 47. DOI: 10.1007/s10714-018-2370-8 .			
	2. M. Buzzegoli, F. Becattini, <i>General thermodynamic equilibrium with axial chemical potential for the free Dirac field</i> , JHEP 12 (2018) 2. DOI: 10.1007/JHEP12(2018)002 .			
	3. J. B. Formiga, <i>The Frenet-Serret description of Born rigidity and its application to the Dirac equation</i> , Revista Mexicana de Fisica 66 (2020) 180. DOI: 10.31349/RevMexFis.66.180 .			
	4. F. Becattini, M. Buzzegoli, A. Palermo, <i>Exact equilibrium distributions in statistical quantum field theory with rotation and acceleration: scalar field</i> , J. High Energy Phys. 2021 (2021) 101. DOI: 10.1007/JHEP02(2021)101 .			
XXIV.	V. E. Ambruș, <i>Transport coefficients in ultrarelativistic kinetic theory</i> , Phys. Rev. C 97 (2018) 024914, DOI: 10.1103/PhysRevC.97.024914 .	9	1	9,0
	1. R. C. V. Coelho, M. Mendoza, M. M. Doria, H. J. Herrmann, <i>Fully dissipative relativistic lattice Boltzmann method in two dimensions</i> , Comput. Fluids 172 (2018) 318-331, DOI: 10.1016/j.compfluid.2018.04.023 .			
	2. A. R. Mendez, A. L. Garcia-Perciante, G. Chacon-Acosta, <i>Thermal dissipation in two dimensional relativistic Fermi gases with a relaxation time model</i> , J. Stat. Phys. (2020). DOI: 10.1007/s10955-019-02473-3 .			
	3. A. Gabbana, D. Simeoni, S. Succi, R. Tripiccion, <i>Relativistic Lattice Boltzmann Methods: Theory and Applications</i> , Phys. Rep. 863 (2020) 1-63. DOI: 10.1016/j.physrep.2020.03.004 .			
	4. A. Gabbana, S. Plumari, G. Galesi, V. Greco, D. Simeoni, S. Succi, R. Tripiccion, <i>Dissipative hydrodynamics of relativistic shock waves in a Quark Gluon Plasma: comparing and benchmarking alternate numerical methods</i> , Phys. Rev. C 101 (2020) 064904. DOI: 10.1103/PhysRevC.101.064904 .			
	5. S. Bhadury, W. Florkowski, A. Jaiswal, R. Ryblewski, <i>Relaxation-time approximation with pair production and annihilation processes</i> , Phys. Rev. C 102 (2020) 064910. DOI: 10.1103/PhysRevC.102.064910 .			
	6. A. Gabbana, D. Simeoni, S. Succi, R. Tripiccion, <i>Probing bulk viscosity in relativistic flows</i> , Phil. Trans. R. Soc. A 378 (2020) 20190409. DOI: 10.1098/rsta.2019.0409 .			
	7. S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	8. J. Sammet, M. Mayer, D. H. Rischke, <i>Linear stability analysis of Israel-Stewart theory in the case of a nonzero background charge</i> , Phys. Rev. D 107 (2023) 114028. DOI: 10.1103/PhysRevD.107.114028 .			
	9. R. Singh, <i>Collective dynamics of polarized spin-half fermions in relativistic heavy-ion collisions</i> , Int. J. Mod. Phys. A 38 (2023) 2330011. DOI: 10.1142/S0217751X23300119 .			
XXV.	V. E. Ambruș, C. Kent, E. Winstanley, <i>Analysis of Scalar and Fermion Quantum Field Theory on Anti-De Sitter Space-Time</i> , Int. J. Mod. Phys. D 27 (2018) 1843014. DOI: 10.1142/S0218271818430149 .	10	3	3,333
	1. C. Dappiaggi, H. R. C. Ferreira, A. Marta, <i>Ground states of a Klein-Gordon field with Robin boundary conditions in global anti-de Sitter spacetime</i> , Phys. Rev. D 98 (2018) 025005. DOI: 10.1103/PhysRevD.98.025005 .			
	2. T. Morley, P. Taylor, E. Winstanley, <i>Vacuum polarization on topological black holes</i> , Class. Quantum Grav. 35 (2018) 235010. DOI: 10.1088/1361-6382/aae45b .			
	3. A. G. M. Lewis, <i>Hadamard renormalization of a 2-dimensional Dirac field</i> , Phys. Rev. D 101 (2020) 125019. DOI: 10.1103/PhysRevD.101.125019 .			
	4. S. Bellucci, W. Oliveira dos Santos, E. R. Bezerra de Mello, A. A. Saharian, <i>Vacuum fermionic currents in braneworld models on AdS bulk with a cosmic string</i> , J. High Energy Phys. 2021 (2021) 190. DOI: 10.1007/JHEP02(2021)190 .			
	5. T. Morley, P. Taylor, E. Winstanley, <i>Quantum field theory on global anti-de Sitter space-time with Robin boundary conditions</i> , Class. Quantum Grav. 38 (2020) 035009. DOI: 10.1088/1361-6382/aba58a .			
	6. O. Sokoliuk, A. Baransky, P. K. Sahoo, <i>Non-singular T-K axion stars with and without the dynamical bosonic field in the presence of negative Λ term</i> , Physics of the Dark Universe 35 (2022) 100972. DOI: 10.1016/j.dark.2022.100972 .			
	7. E. R. B. de Mello, W. O. dos Santos, A. A. Saharian, <i>Finite temperature charge and current densities around a cosmic string in AdS spacetime with compact dimension</i> , Phys. Rev. D 106 (2022) 125009. DOI: 10.1103/PhysRevD.106.125009 .			
	8. S. Namasivayam, E. Winstanley, <i>Vacuum polarization on three-dimensional anti-de Sitter space-time with Robin boundary conditions</i> , Gen. Rel. Grav. 55 (2023) 13. DOI: 10.1007/s10714-022-03056-6 .			

	9.	T. Morley, S. Namasivayam, E. Winstanley, <i>Renormalized stress-energy tensor on global anti-de Sitter space-time with Robin boundary conditions</i> , Gen. Rel. Grav. 56 (2024) 38. DOI: 10.1007/s10714-024-03224-w .			
	10.	J. C. Thompson, E. Winstanley, <i>Quantum-corrected anti-de Sitter spacetime</i> , Phys. Rev. D 110 (2024) 125003. DOI: 10.1103/PhysRevD.110.125003 .			
XXVI.		V. Sofonea, T. Biciușcă, S. Busuioc, V. E. Ambruș, G. Gonnella, A. Lamura, <i>Corner-transport-upwind lattice Boltzmann model for bubble cavitation</i> , Phys. Rev. E 97 (2018) 023309. DOI: 10.1103/PhysRevE.97.023309 .	14	5,5	2,545
	1.	C. Peng, S. Tian, G. Li, M. C. Sukop, <i>Single-component multiphase lattice Boltzmann simulation of free bubble and crevice heterogeneous cavitation nucleation</i> , Phys. Rev. E 98 (2018) 203305. DOI: 10.1103/PhysRevE.98.023305 .			
	2.	L. N. Carenza, G. Gonnella, A. Lamura, G. Negro, A. Tiribocchi, <i>Eur. Phys. J. E</i> 42 (2019) 81. DOI: 10.1140/epje/i2019-11843-6 .			
	3.	H. Liang, H. Liu, Z. Chai, B. Shi, <i>Lattice Boltzmann method for contact-line motion of binary fluids with high density ratio</i> , Phys. Rev. E 99 (2019) 063306. DOI: 10.1103/PhysRevE.99.063306 .			
	4.	C. Peng, S. Tian, G. Li, M. C. Sukop, <i>Simulation of multiple cavitation bubbles interaction with single-component multiphase Lattice Boltzmann method</i> , Int. J. Heat Mass Transf. 137 (2019) 301-317. DOI: 10.1016/j.ijheatmasstransfer.2019.03.096 .			
	5.	C. Peng, S. Tian, G. Li, M. C. Sukop, <i>Simulation of laser-produced single cavitation bubbles with hybrid thermal Lattice Boltzmann method</i> , Int. J. Heat Mass T. 149 (2020) 119136. DOI: 10.1016/j.ijheatmasstransfer.2019.119136 .			
	6.	E. Ezzatneshan, H. Vaseghnia, <i>Simulation of collapsing cavitation bubbles in various liquids by lattice Boltzmann model coupled with the Redlich-Kwong-Soave equation of state</i> , Phys. Rev. E 102 (2020) 053309. DOI: 10.1103/PhysRevE.102.053309 .			
	7.	E. Ezzatneshan, H. Vaseghnia, <i>Dynamics of an acoustically driven cavitation bubble cluster in the vicinity of a solid surface</i> , Phys. Fluids 33 (2021) 123311. DOI: 10.1063/5.0075290 .			
	8.	D. J. Zhang, A. G. Xu, Y. D. Zhang, Y. B. Gan, Y. J. Li, <i>Discrete Boltzmann modeling of high-speed compressible flows with various depths of non-equilibrium</i> , Phys. Fluids 34 (2022) 086104. DOI: 10.1063/5.0100873 .			
	9.	Y. Gan, A. Xu, H. Lai, W. Li, G. Sun, S. Succi, <i>Discrete Boltzmann multi-scale modeling of non-equilibrium multiphase flows</i> , J. Fluid Mech. 951 (2022) A8. DOI: 10.1017/jfm.2022.844 .			
	10.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	11.	A.-M. Zhang, S.-M. Li, P. Cui, S. Li, Y.-L. Liu, <i>A unified theory for bubble dynamics</i> , Phys. Fluids 35 (2023) 033323. DOI: 10.1063/5.0145415 .			
	12.	H. Wang, Y. L. Liu, H. Qin, Z. L. Tian, D. Yang, <i>Interaction between a nonspherical pulsating bubble and a free surface near a solid wall</i> , Phys. Fluids 36 (2024) 063333. DOI: 10.1063/5.0213651 .			
	13.	E. Ezzatneshan, A. Salehi, H. Vaseghnia, <i>Numerical study on collapsing cavitation bubble dynamics in cryogenic fluids</i> , Cryogenics 141 (2024) 103879. DOI: 10.1016/j.cryogenics.2024.103879 .			
	14.	J. W. Yin, R. Zhang, L. Wang, Z. F. Lian, H. Q. Wei, J. Y. Pan, <i>On dynamics of flash boiling bubbles within liquid ammonia systems</i> , Phys. Fluids 36 (2024) 123370. DOI: 10.1063/5.0243243 .			
XXVII.		V. E. Ambruș, R. Blaga, <i>High-order quadrature-based lattice Boltzmann models for the flow of ultrarelativistic rarefied gases</i> , Phys. Rev. C 98 (2018) 035201. DOI: 10.1103/PhysRevC.98.035201 .	11	2	5,5
	1.	A. Gabbana, S. Plumari, G. Galesi, V. Greco, D. Simeoni, S. Succi, R. Tripiccione, <i>Dissipative hydrodynamics of relativistic shock waves in a Quark Gluon Plasma: comparing and benchmarking alternate numerical methods</i> , Phys. Rev. C 101 (2020) 064904. DOI: 10.1103/PhysRevC.101.064904 .			
	2.	A. Gabbana, D. Simeoni, S. Succi, R. Tripiccione, <i>Relativistic Lattice Boltzmann Methods: Theory and Applications</i> , Phys. Rep. 863 (2020) 1-63. DOI: 10.1016/j.physrep.2020.03.004 .			
	3.	L. Du, U. Heinz, <i>(3+1)-dimensional dissipative relativistic fluid dynamics at non-zero net baryon density</i> , Comput. Phys. Commun. 251 (2020) 107090. DOI: 10.1016/j.cpc.2019.107090 .			
	4.	L. R. Weih, A. Gabbana, D. Simeoni, L. Rezzolla, S. Succi, R. Tripiccione, <i>Beyond moments: relativistic Lattice-Boltzmann methods for radiative transport in computational astrophysics</i> , Monthly Notices of the Royal Astronomical Society 498 (2020) 3374-3394. DOI: 10.1093/mnras/staa2575 .			
	5.	L. Bazzanini, A. Gabbana, D. Simeoni, S. Succi, R. Tripiccione, <i>A Lattice Boltzmann Method for Relativistic Rarefied Flows in (2 + 1) Dimensions</i> , J. Comput. Sci. 51 (2021) 101320. DOI: 10.1016/j.jocs.2021.101320 .			
	6.	M. Watson, <i>Two Dimensional Turbulence in a Massless Fluid with a Relativistic Lattice Boltzmann Model</i> , AIP Advances 11 (2021) 035333. DOI: 10.1063/5.0045611 .			
	7.	S. Boccelli, J. G. McDonald, <i>Realizability conditions for relativistic gases with a non-zero heat flux</i> , Phys. Fluids 34 (2022) 097115. DOI: 10.1063/5.0106214 .			

	8.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	9.	D. Simeoni, A. Gabbana, S. Succi, <i>Bjorken Flow Revisited: Analytic and Numerical Solutions in Flat Space-Time Coordinates</i> , Commun. Comput. Phys. 33 (2023) 174. DOI: 10.4208/cicp.OA-2022-0051 .			
	10.	D. Simeoni, G. Parise, F. Guglietta, A. R. Rossi, J. Rosenzweig, A. Cianchi, M. Sbragaglia, <i>Lattice Boltzmann method for warm fluid simulations of plasma wakefield acceleration</i> , Phys. Plasmas 31 (2024) 013904. DOI: 10.1063/5.0175910 .			
	11.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .			
XXVIII.		V. E. Ambruș, C. Guga-Roșian, <i>Lattice Boltzmann study of the one-dimensional boost-invariant expansion with isotropic initial conditions</i> , AIP Conf. Proc. 2071 (2019) 020014. DOI: 10.1063/1.5090061 .	1	2	0,5
	1.	A. Gabbana, D. Simeoni, S. Succi, R. Tripiccone, <i>Relativistic Lattice Boltzmann Methods: Theory and Applications</i> , Phys. Rep. 863 (2020) 1-63. DOI: 10.1016/j.physrep.2020.03.004 .			
XXIX.		G. Negro, S. Busuioc, V. E. Ambruș, G. Gonnella, A. Lamura, V. Sofonea, <i>Comparison between isothermal collision-streaming and finite-difference lattice Boltzmann models</i> , Int. J. Mod. Phys. C 30 (2019) 1941005. DOI: 10.1142/S0129183119410055 .	7	5,5	1,272
	1.	O. V. Ilyin, <i>Gaussian lattice Boltzmann method and its applications to rarefied flows</i> , Phys. Fluids 32 (2020) 012007. DOI: 10.1063/1.5126306 .			
	2.	L. N. Carenza, G. Gonnella, D. Marenduzzo, G. Negro, <i>Chaotic and periodical dynamics of active chiral droplets</i> , Physica A 559 (2020) 125025. DOI: 10.1016/j.physa.2020.125025 .			
	3.	G. Negro, L. N. Carenza, G. Gonnella, D. Marenduzzo, E. Orlandini, <i>Topological phases and curvature-driven pattern formation in cholesteric shells</i> , Soft Matter 19 (2023) 1987. DOI: 10.1039/d2sm01347a .			
	4.	G. Negro, L. N. Carenza, G. Gonnella, F. Mackay, A. Morozov, D. Marenduzzo, <i>Yield-stress transition in suspensions of deformable droplets</i> , Sci. Adv. 9 (2023) eadf8106. DOI: 10.1126/sciadv.adf8106 .			
	5.	J. Li, X. B. Liu, <i>Pseudopotential Lattice Boltzmann Model for Immiscible Multicomponent Flows in Microchannels</i> , Processes 11 (2023) 2193. DOI: 10.3390/pr11072193 .			
	6.	G. Negro, G. Gonnella, A. Lamura, S. Busuioc, V. Sofonea, <i>Growth regimes in three-dimensional phase separation of liquid-vapor systems</i> , Phys. Rev. E 109 (2024) 015305. DOI: 10.1103/PhysRevE.109.015305 .			
	7.	G. Negro, L. C. Head, L. N. Carenza, T. N. Shendruk, D. Marenduzzo, G. Gonnella, A. Tiribocchi, <i>Topology controls flow patterns in active double emulsions</i> , Nat. Commun. 16 (2025) 1412. DOI: 10.1038/s41467-025-56236-8 .			
XXX.		V. E. Ambruș, V. Sofonea, <i>Half-range lattice Boltzmann models for the simulation of Couette flow using the Shakhov collision term</i> , Phys. Rev. E 98 (2018) 063311. DOI: 10.1103/PhysRevE.98.063311 .	10	2	5,0
	1.	J. Ren, Q. Zheng, Y. Li, <i>Curved boundary condition for lattice Boltzmann modeling of binary gaseous micro-scale flows in the slip regime</i> , Phys. A: Stat. Mech. Appl. 550 (2020) 124181. DOI: 10.1016/j.physa.2020.124181 .			
	2.	Y. Shi, L. Wu, X. Shan, <i>Accuracy of high-order lattice Boltzmann method for non-equilibrium gas flow</i> , J. Fluid Mech. 907 (2021) A25. DOI: 10.1017/jfm.2020.813 .			
	3.	G. Tatsios, A. Tsimpoukis, D. Valougeorgis, <i>The Half-Range Moment Method in Harmonically Oscillating Rarefied Gas Flows</i> , Fluids 6 (2021) 17. DOI: 10.3390/fluids6010017 .			
	4.	Y. Wang, J. Shen J, Z. Yin, F. Bao, <i>Numerical Simulation of Non-Spherical Submicron Particle Acceleration and Focusing in a Converging–Diverging Micronozzle</i> , Appl. Sci. 12 (2022) 343. DOI: 10.3390/app12010343 .			
	5.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	6.	A. Corbetta, A. Gabbana, V. Gyrya, D. Livescu, J. Prins, F. Toschi, <i>Toward learning Lattice Boltzmann collision operators</i> , Eur. Phys. J. E 46 (2023) 10. DOI: 10.1140/epje/s10189-023-00267-w .			
	7.	T. Laudadio, N. Matronardi, P. van Dooren, <i>On computing modified moments for half-range Hermite weights</i> , Num. Algorithms 95 (2024) 1435. DOI: 10.1007/s11075-023-01615-9 .			
	8.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .			
	9.	S. Busuioc, <i>Mesoscopic lattice Boltzmann modeling of dense gas flows in curvilinear geometries</i> , Phys. Rev. Fluids 9 (2024) 053401. DOI: 10.1103/PhysRevFluids.9.053401 .			
	10	J. H. Song, L. Miao, F. Chen, Y. B. Gan, A. G. Xu, L. X. Li, <i>Discrete Boltzmann modeling of Kelvin-Helmholtz instability in plasma</i> , Phys. Fluids 37 (2025) 036137. DOI: 10.1063/5.0257901 .			
XXXI.		V. E. Ambruș, F. Sharipov, V. Sofonea, <i>Lattice Boltzmann approach to rarefied gas flows using</i>	2	3	0,666

	half-range Gauss-Hermite quadratures: Comparison to DSMC results based on ab initio potentials, AIP Conf. Proc. 2132 (2019) 060012. DOI: 10.1063/1.5119552 .			
	1. A. Taassob, A. Bordbar, S. Kheirandish, A. Zarnaghsh, R. Kamali, A. S. Rana, <i>A review of rarefied gas flow in irregular micro/nanochannels</i> , J. Micromech. Microeng. 31 (2021) 113002. DOI: 10.1088/1361-6439/ac28a3 .			
	2. L. F. Dai, H. Y. Wu, <i>Rarefaction Effect, Heat Transfer, and Drag Coefficient for Gas Flow Around Square Cylinder in Transition Flow Regime</i> , J. Heat Transf.-Trans. Of the ASME 144 (2022) 071801. DOI: 10.1115/1.4054205 .			
XXXII.	V. E. Ambruș, S. Busuioc, A. J. Wagner, F. Paillusson, H. Kusumaatmaja, <i>Multicomponent Flow on Curved Surfaces: A Vielbein Lattice Boltzmann Approach</i> , Phys. Rev. E 100 (2019) 063306, DOI: 10.1103/PhysRevE.100.063306 .	8	5	1,6
	1. J. Yang, J. Kim, <i>A phase-field model and its efficient numerical method for two-phase flows on arbitrarily curved surfaces in 3D space</i> , Comput. Meth. Appl. Mech. Eng. 372 (2020) 113382. DOI: 10.1016/j.cma.2020.113382 .			
	2. J. Yang, J. Kim, <i>Numerical study of incompressible binary fluids on 3D curved surfaces based on the conservative Allen-Cahn-Navier-Stokes model</i> , Comput. Fluids 228 (2021) 105094. DOI: 10.1016/j.compfluid.2021.105094 .			
	3. Y. Gan, A. Xu, H. Lai, W. Li, G. Sun, S. Succi, <i>Discrete Boltzmann multi-scale modeling of non-equilibrium multiphase flows</i> , J. Fluid Mech. 951 (2022) A8. DOI: 10.1017/jfm.2022.844 .			
	4. E. Bachini, V. Krause, A. Voigt, <i>The interplay of geometry and coarsening in multicomponent lipid vesicles under the influence of hydrodynamics</i> , Phys. Fluids 35 (2023) 042102. DOI: 10.1063/5.0145884 .			
	5. J. F. Li, D. K. Zheng, W. Zhang, <i>Advances of Phase-Field Model in the Numerical Simulation of Multiphase Flows: A Review</i> , Atmosphere 14 (2023) 1311. DOI: 10.3390/atmos14081311 .			
	6. E. Bachini, V. Krause, I. Nitschke, A. Voigt, <i>Derivation and simulation of a two-phase fluid deformable surface model</i> , J. Fluid Mech. 977 (2023) A41. DOI: 10.1017/jfm.2023.943 .			
	7. S. Busuioc, <i>Mesoscopic lattice Boltzmann modeling of dense gas flows in curvilinear geometries</i> , Phys. Rev. Fluids 9 (2024) 053401. DOI: 10.1103/PhysRevFluids.9.053401 .			
	8. A. Venkatesh, A. Bhargava, V. Narsimhan, <i>Stability of cylindrical, multicomponent vesicles</i> , J. Fluid Mech. 1003 (2025) A18. DOI: 10.1017/jfm.2024.1120 .			
XXXIII.	V. E. Ambruș, V. Sofonea, <i>Quadrature-Based Lattice Boltzmann Models for Rarefied Gas Flow</i> . In: Toschi F., Sega M. (eds) <i>Flowing Matter. Soft and Biological Matter</i> . Springer, Cham, 2019. DOI: 10.1007/978-3-030-23370-9_9 .	5	2	2,5
	1. F. Chen, A. Xu, Y. Zhang, Q. Zeng, <i>Morphological and non-equilibrium analysis of coupled Rayleigh-Taylor-Kelvin-Helmholtz instability</i> , Phys. Fluids 32 (2020) 104111. DOI: 10.1063/5.0023364 .			
	2. S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	3. F. Chen, A. Xu, Y. Zhang, Y. Gan, B. Liu, S. Wang, <i>Effects of the initial perturbations on the Rayleigh-Taylor-Kelvin-Helmholtz instability system</i> , Frontiers of Physics 17 (2022) 33505. DOI: 10.1007/s11467-021-1145-y .			
	4. Z. P. Liu, J. H. Song, A. G. Xu, Y. D. Zhang, K. Xie, <i>Discrete Boltzmann modeling of plasma shock wave</i> , Mech. Eng. Sci. 237 (2023) 2532-2548. DOI: 10.1177/09544062221075943 .			
	5. S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .			
XXXIV.	V. E. Ambruș, E. Winstanley, <i>Exact solutions in quantum field theory under rotation</i> , Lecture Notes in Physics 987 (Springer, Cham 2021). DOI: 10.1007/978-3-030-71427-7_4 .	8	2	4,0
	1. J. B. Formiga, <i>The Frenet-Serret description of Born rigidity and its application to the Dirac equation</i> , Revista Mexicana de Fisica 66 (2020) 180. DOI: 10.31349/RevMexFis.66.180 .			
	2. M. Buzzegoli, <i>Thermodynamic Equilibrium of Massless Fermions with Vorticity, Chirality and Electromagnetic Field</i> , in Strongly interacting matter under rotation (eds. J. Liao, M. Lisa, F. Becattini), Lecture notes in physics 987 (2021) 53. DOI: 10.1007/978-3-030-71427-7_3 .			
	3. H. L. Chen, X.-G. Huang, J. F. Liao, <i>QCD Phase Structure Under Rotation</i> , in Strongly interacting matter under rotation (eds. J. Liao, M. Lisa, F. Becattini), Lecture notes in physics 987 (2021) 53. DOI: 10.1007/978-3-030-71427-7_11 .			
	4. L. Tinti, <i>Quantum free-streaming: Out of equilibrium expansion for the free scalar fields</i> , Phys. Rev. D 108 (2023) 076022. DOI: 10.1103/PhysRevD.108.076022 .			
	5. M. Shokri, D. H. Rischke, <i>Linear stability analysis in inhomogeneous equilibrium configurations</i> , Phys. Rev. D 108 (2023) 096029. DOI: 10.1103/PhysRevD.108.096029 .			

	6.	E. Siri, N. Sadooghi, <i>Thermodynamic properties of a relativistic Bose gas under rigid rotation</i> , Phys. Rev. D 110 (2024) 036016. DOI: 10.1103/PhysRevD.110.036016 .			
	7.	M. Buzzegoli, K. Tuchin, <i>Causal fermion states in magnetic field in a relativistic rotating frame and electromagnetic radiation by a rapidly rotating charge</i> , Phys. Rev. D 110 (2024) 076013. DOI: 10.1103/PhysRevD.110.076013 .			
	8.	E. Siri, N. Sadooghi, <i>Bose-Einstein condensation in a rigidly rotating relativistic boson gas</i> , Phys. Rev. D 111 (2025) 036011. DOI: 10.1103/PhysRevD.111.036011 .			
XXXV.		V. E. Ambruș, M. N. Chernodub, <i>Vortical effects in Dirac fluids with vector, chiral and helical charges</i> , Eur. J. Phys. C 83 (2023) 111. DOI: 10.1140/epjc/s10052-023-11244-0 .	19	2	9,5
	1.	P.-H. Hu, Q.-L. Hu, R.-X. Miao, <i>Note on Anomalous Current for a free Theory</i> , Phys. Rev. D 101 (2020) 125010. DOI: 10.1103/PhysRevD.101.125010 .			
	2.	A. Alexandrov, P. Mitkin, <i>Zilch Vortical Effect for Fermions</i> , J. High Energy Phys. 2021 (2021) 70. DOI: 10.1007/JHEP05(2021)070 .			
	3.	M. Ammon, S. Griener, J. Hernandez, M. Kaminski, R. Koirala, <i>Chiral hydrodynamics in strong external magnetic fields</i> , J. High Energy Phys. 2021 , 78. DOI: 10.1007/JHEP04(2021)078 .			
	4.	S.-S. Wan, M. Ruggieri M, <i>The Chiral Phase Transitions of Helical Matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .			
	5.	R. Guo, R.-X. Miao, <i>Enhancement of Anomalous Current by High Temperature</i> , Eur. Phys. J. C 81 (2021) 748. DOI: 10.1140/epjc/s10052-021-09540-8 .			
	6.	J.-G. Liu, R.-X. Miao, <i>Holographic Anomalous Current at a Finite Temperature</i> , Phys. Lett. B 816 (2021) 136229. DOI: 10.1016/j.physletb.2021.136229 .			
	7.	N. Yamamoto, D.-L. Yang, <i>Helical magnetic effect and the chiral anomaly</i> , Phys. Rev. D 103 (2021) 125003. DOI: 10.1103/PhysRevD.103.125003 .			
	8.	J.-H. Gao, <i>Helicity polarization in relativistic heavy ion collisions</i> , Phys. Rev. D 104 (2021) 076016. DOI: 10.1103/PhysRevD.104.076016 .			
	9.	C. Corianò, M. M. Maglio, <i>Conformal Field Theory in Momentum Space and Anomaly Actions in Gravity: The Analysis of 3- and 4-Point Functions</i> , Phys. Rep. 952 (2022) 1-95. DOI: 10.1016/j.physrep.2021.11.005 .			
	10.	G. Yu. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Chiral Vortical Effect in Extended Rarita-Schwinger Field Theory and Chiral Anomaly</i> , Phys. Rev. D 105 (2022) L041701. DOI: 10.1103/PhysRevD.105.L041701 .			
	11.	C. Yi, S. Pu, J.-H. Gao, D.-L. Yang, <i>Hydrodynamic helicity polarization in relativistic heavy ion collisions</i> , Phys. Rev. C 105 (2022) 044911. DOI: 10.1103/PhysRevC.105.044911 .			
	12.	R.-X. Miao, Yu.-Q. Zeng, <i>Holographic anomalous chiral current near a boundary</i> , Phys. Lett. B 838 (2023) 137700. DOI: 10.1016/j.physletb.2023.137700 .			
	13.	R. Singh, M. Shokri, S. M. A. T. Mehr, <i>Relativistic hydrodynamics with spin in the presence of electromagnetic fields</i> , Nucl. Phys. A 1035 (2023) 122656. DOI: 10.1016/j.nuclphysa.2023.122656 .			
	14.	C. Yi, X. Y. Wu, D. L. Yang, J. H. Gao, S. Pu, G. Y. Qin, <i>Probing vortical structures in heavy-ion collisions at RHIC-BES energies through helicity polarization</i> , Phys. Rev. C 109 (2024) L011901. DOI: 10.1103/PhysRevC.109.L011901 .			
	15.	C. Corianò, S. Lonetti, M. M. Maglio, <i>Parity-violating CFT and the gravitational chiral anomaly</i> , Phys. Rev. D 109 (2024) 045004. DOI: 10.1103/PhysRevD.109.045004 .			
	16.	X. Tong, Y. Wang, C. Zhang, Y. H. Zhu, <i>BCS in the sky: signatures of inflationary fermion condensation</i> , J. Cosmol. Astropart. Phys. 04 (2024) 022. DOI: 10.1088/1475-7516/2024/04/022 .			
	17.	C. Corianò, M. Creti, S. Lonetti, R. Tommasi, <i>Gravitational chiral anomaly at finite temperature and density</i> , Phys. Rev. D 110 (2024) 025008. DOI: 10.1103/PhysRevD.110.025008 .			
	18.	I. I. Cotăescu, <i>Operators of quantum theory of Dirac's free field</i> , Chinese Phys. C 48 (2024) 123106. DOI: 10.1088/1674-1137/ad745c .			
	19.	T.-M. Zhao, R.-X. Miao, <i>General holographic chiral theory near a boundary</i> , Phys. Lett. B 848 (2024) 138383. DOI: 10.1016/j.physletb.2023.138383 .			
XXXVI		V. E. Ambruș, <i>Helical massive fermions under rotation</i> , JHEP08(2020)016. DOI: 10.1007/JHEP08(2020)016 .	17	1	17,0
	1.	R. Singh, <i>Conformal transformations of conservation equations in spin hydrodynamics</i> , Acta Phys. Polonica B, 52 (2021) 1081. DOI: 10.5506/AphysPolB.52.1081 .			
	2.	R. Ryblewski, R. Singh, <i>Relativistic hydrodynamics for spin-polarized media</i> , Acta Phys. Pol. B 51 (2020) 1537. DOI: 10.5506/AphysPolB.51.1537 .			
	3.	R. Singh, G. Sophys, R. Ryblewski, <i>Spin polarization dynamics in the Gubser-expanding background</i> , Phys. Rev. D 103 (2021) 074024. DOI: 10.1103/PhysRevD.103.074024 .			
	4.	S.-S. Wan, G. Giuliani, M. Ruggieri, <i>Chiral phase transitions of helical matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .			
	5.	J.-H. Gao, <i>Helicity polarization in relativistic heavy ion collisions</i> , Phys. Rev. D 104 (2021) 076016. DOI: 10.1103/PhysRevD.104.076016 .			
	6.	V. I. Zakharov, G. Yu. Prokhorov, O. V. Teryaev, <i>Polarization of Elementary Particles in Heavy-Ion</i>			

		<i>Collisions as a Manifestation of Quantum Field Theory Anomalies</i> , Phys. Part. Nuclei 52 (2021) 522. DOI: 10.1134/S1063779621040614 .		
	7.	C. Yi, S. Pu, J.-H. Gao, D.-L. Yang, <i>Hydrodynamic helicity polarization in relativistic heavy ion collisions</i> , Phys. Rev. C 105 (2022) 044911. DOI: 10.1103/PhysRevC.105.044911 .		
	8.	G. Y. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Hydrodynamic Manifestations of Gravitational Chiral Anomaly</i> , Phys. Rev. Lett. 129 (2022) 151601. DOI: 10.1103/PhysRevLett.129.151601 .		
	9.	G. Y. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Gravitational chiral anomaly and anomalous transport for fields with spin 3/2</i> , Phys. Lett. B 840 (2023) 137839. DOI: 10.1016/j.physletb.2023.137839 .		
	10.	H. H. Peng, S. H. Wu, R. J. Wang, D. She, S. Pu, <i>Anomalous magnetohydrodynamics with temperature-dependent electric conductivity and application to the global polarization</i> , Phys. Rev. D 107 (2023) 096010. DOI: 10.1103/PhysRevD.107.096010 .		
	11.	R. Singh, M. Shokri, S. M. A. T. Mehr, <i>Relativistic hydrodynamics with spin in the presence of electromagnetic fields</i> , Nucl. Phys. A 1035 (2023) 122656. DOI: 10.1016/j.nuclphysa.2023.122656 .		
	12.	M. Buzzegoli, <i>Spin polarization induced by magnetic field and the relativistic Barnett effect</i> , Nucl. Phys. A 1036 (2023) 122674. DOI: 10.1016/j.nuclphysa.2023.122674 .		
	13.	C. Yi, X. Y. Wu, D. L. Yang, J. H. Gao, S. Pu, G. Y. Qin, <i>Probing vortical structures in heavy-ion collisions at RHIC-BES energies through helicity polarization</i> , Phys. Rev. C 109 (2024) L011901. DOI: 10.1103/PhysRevC.109.L011901 .		
	14.	X. Tong, Y. Wang, C. Zhang, Y. H. Zhu, <i>BCS in the sky: signatures of inflationary fermion condensation</i> , J. Cosmol. Astropart. Phys. 04 (2024) 022. DOI: 10.1088/1475-7516/2024/04/022 .		
	15.	R. V. Khakimov, G. Yu. Prokhorov, O. V. teryaev, V. I. Zakharov, <i>Hydrodynamical dual of the gravitational axial anomaly and the cosmological constant</i> , Phys. Rev. D 109 (2024) 105001. DOI: 10.1103/PhysRevD.109.105001 .		
	16.	F. Becattini, M. Buzzegoli, T. Niida, S. Pu, A. H. Tang, Q. Wang, <i>Spin polarization in relativistic heavy-ion collisions</i> , Int. J. Mod. Phys. E 33 (2024) 2430006. DOI: 10.1142/S0218301324300066 .		
	17.	I. I. Cotăescu, <i>Operators of quantum theory of Dirac's free field</i> , Chinese Phys. C 48 (2024) 123106. DOI: 10.1088/1674-1137/ad745c .		
XXXVI I.		S. T. Kis, V. E. Ambruș, <i>Implicit-Explicit Finite-Difference Lattice Boltzmann Model with Varying Adiabatic Index</i> , AIP Conf. Proc. 2218 (2020) 050008. DOI: 10.1063/5.0001069 .	1	2
	1.	M. Wen, W. Li, Z. Zhao, <i>A hybrid scheme coupling lattice Boltzmann method and finite-volume lattice Boltzmann method for steady incompressible flows</i> , DOI: 10.1063/5.0085370 .		
XXXVI II.		S. Busuioc, V. E. Ambruș, <i>Lattice Boltzmann models based on the vielbein formalism for the simulation of flows in curvilinear geometries</i> , Phys. Rev. E 99 (2019) 033304. DOI: 10.1103/PhysRevE.99.033304 .	7	2
	1.	F. Chen, A. Xu, Y. Zhang, Q. Zeng, <i>Morphological and non-equilibrium analysis of coupled Rayleigh-Taylor-Kelvin-Helmholtz instability</i> , Phys. Fluids 32 (2020) 104111. DOI: 10.1063/5.0023364 .		
	2.	G. Tatsios, A. Tsimpoukis, D. Valougeorgis, <i>The Half-Range Moment Method in Harmonically Oscillating Rarefied Gas Flows</i> , Fluids 6 (2021) 17. DOI: 10.3390/fluids6010017 .		
	3.	L. Xu, R. Chen, X.-C. Cai, <i>Parallel finite-volume discrete Boltzmann method for inviscid compressible flows on unstructured grids</i> , Phys. Rev. E 103 (2021) 023306. DOI: 10.1103/PhysRevE.103.023306 .		
	4.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .		
	5.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .		
	6.	S. Busuioc, <i>Mesoscopic lattice Boltzmann modeling of dense gas flows in curvilinear geometries</i> , Phys. Rev. Fluids 9 (2024) 053401. DOI: 10.1103/PhysRevFluids.9.053401 .		
	7.	F. Chen, A. G. Xu, J. H. Song, Y. B. Gan, Y. D. Zhang, N. Guan, <i>Surface tension effects on Rayleigh-Taylor instability in nonideal fluids: A multiple-relaxation-time discrete Boltzmann study</i> , Sci. China-Phys. Mech. Astronomy 67 (2024) 124611. DOI: 10.1007/s11433-024-2490-x .		
XXXIX .		S. Busuioc, V. E. Ambruș, T. Biciușcă, V. Sofonea, <i>Two-dimensional off-lattice Boltzmann model for van der Waals fluids with variable temperature</i> , Comput. Math. Appl. 79 (2020) 111-140. DOI: 10.1016/j.camwa.2018.12.015 .	4	4
	1.	Y. X. Sun, Z. F. Tian, <i>High-order upwind compact finite-difference lattice Boltzmann method for viscous incompressible flows</i> , Comput. Math. Appl. 80 (2020) 1858-1872. DOI: 10.1016/j.camwa.2020.08.014 .		
	2.	C. Zhang, H. Liang, X. Yuan, G. Liu, Z. Guo, L. Wang, <i>Lattice-Boltzmann model for van der Waals fluids with liquid-vapor phase transition</i> , Int. J. Heat Mass Transf. 179 (2021) 121741. DOI: 10.1016/j.ijheatmasstransfer.2021.121741 .		
	3.	Y. Gan, A. Xu, H. Lai, W. Li, G. Sun, S. Succi, <i>Discrete Boltzmann multi-scale modeling of non-equilibrium</i>		

		<i>multiphase flows</i> , J. Fluid Mech. 951 (2022) A8. DOI: 10.1017/jfm.2022.844 .			
	4.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
XL.		V. E. Ambruș, <i>Fermion condensation under rotation on anti-de Sitter space</i> , Acta Phys. Polon. Supp. 13 (2020) 199. DOI: 10.5506/APhysPolBSupp.13.199 .	1	1	1,0
	1.	M. N. Chernodub, <i>Inhomogeneous confining-deconfining phases in rotating plasmas</i> , Phys. Rev. D 103 (2021) 054027. DOI: 10.1103/PhysRevD.103.054027 .			
XLI.		V. E. Ambruș, F. Sharipov, V. Sofonea, <i>Comparison of the Shakhov and ellipsoidal models for the Boltzmann equation and DSMC for ab initio-based particle interactions</i> , Comput. Fluids. 211 (2020) 104637. DOI: 10.1016/j.compfluid.2020.104637 .	16	3	5,333
	1.	F. Chen, A. Xu, Y. Zhang, Q. Zeng, <i>Morphological and non-equilibrium analysis of coupled Rayleigh-Taylor-Kelvin-Helmholtz instability</i> , Phys. Fluids 32 (2020) 104111. DOI: 10.1063/5.0023364 .			
	2.	G. Tatsios, A. Tsimpoukis, D. Valougeorgis, <i>The Half-Range Moment Method in Harmonically Oscillating Rarefied Gas Flows</i> , Fluids 6 (2021) 17. DOI: 10.3390/fluids6010017 .			
	3.	D. Kalempa, F. Sharipov, <i>Radiometric force on a sphere in a rarefied gas based on the Cercignani-Lampis model of gas-surface interaction</i> , Phys. Fluids 33 (2021) 073602. DOI: 10.1063/5.0054783 .			
	4.	R. F. Yuan, L. Wu, <i>Capturing the influence of intermolecular potential in rarefied gas flows by a kinetic model with velocity-dependent collision frequency</i> , J. Fluid Mech. 942 (2022) A13. DOI: 10.1017/jfm.2022.350 .			
	5.	F. Sharipov, A. N. Volkov, <i>Aerothermodynamics of a sphere in a monatomic gas based on ab initio interatomic potentials over a wide range of gas rarefaction: transonic, supersonic and hypersonic flows</i> , J. Fluid Mech. 942 (2022) A17. DOI: 10.1017/jfm.2022.356 .			
	6.	L. F. Dai, H. Y. Wu, <i>Rarefaction Effect, Heat Transfer, and Drag Coefficient for Gas Flow Around Square Cylinder in Transition Flow Regime</i> , J. Heat Transfer-transactions of the ASME 144 (2022) 071801. DOI: 10.1115/1.4054205 .			
	7.	O. V. Germider, V. N. Popov, <i>Mass Flux and Gas Pressure Distribution in a Long Concentric Annular Channel in the Case of Incomplete Accommodation of Gas Molecules</i> , Comput. Math. Phys. 62 (2022) 1515. DOI: 10.1134/S0965542522090111 .			
	8.	O. V. Germider, V. N. Popov, <i>Estimate of the Effect of Rarefaction on the Poiseuille Number in a Long Annular Channel under Partial Accommodation of Gas Molecules</i> , Fluid Dyn. 57 (2022) 663. DOI: 10.1134/S0015462822050056 .			
	9.	S. Busuioc, <i>Quadrature-based lattice Boltzmann model for non-equilibrium dense gas flows</i> , Phys. Fluids 35 (2023) 016112. DOI: 10.1063/5.0135579 .			
	11.	O. V. Germider, V. N. Popov, <i>Darcy friction coefficient calculated using an ellipsoidal statistical model</i> , J. Appl. Mech. Technical Phys. 64 (2023) 647. DOI: 10.1134/S0021894423040107 .			
	12.	L. C. Han, L. M. Yang, Z. H. Li, J. Wu, Y. J. Du, X. Shen, <i>Unlocking the Key to Accelerating Convergence in the Discrete Velocity Method for Flows in the Near Continuous/Continuous Flow Regimes</i> , Entropy 25 (2023) 1609. DOI: 10.3390/e25121609 .			
	13.	S. Busuioc, V. Sofonea, <i>Bounded flows of dense gases</i> , Phys. Rev. Fluids 9 (2024) 023401. DOI: 10.1103/PhysRevFluids.9.023401 .			
	14.	Q. He, S. Tao, G. J. Liu, L. Wang, Y. Ge, J. C. Chen, X. P. Yang, <i>Thermal rarefied gas flow simulations with moving boundaries based on discrete unified gas kinetic scheme and immersed boundary method</i> , Int. J. Heat Mass Transf. 226 (2024) 125508. DOI: 10.1016/j.jheatmasstransfer.2024.125508 .			
	15.	S. Busuioc, <i>Mesoscopic lattice Boltzmann modeling of dense gas flows in curvilinear geometries</i> , Phys. Rev. Fluids 9 (2024) 053401. DOI: 10.1103/PhysRevFluids.9.053401 .			
	16.	F. Chen, A. G. Xu, J. H. Song, Y. B. Gan, Y. D. Zhang, N. Guan, <i>Surface tension effects on Rayleigh-Taylor instability in nonideal fluids: A multiple-relaxation-time discrete Boltzmann study</i> , Sci. China-Phys. Mech. Astronomy 67 (2024) 124611. DOI: 10.1007/s11433-024-2490-x .			
XLII.		M. N. Chernodub, V. E. Ambruș, <i>Phase diagram of helically imbalanced QCD matter</i> , Phys. Rev. D 103 (2021) 094015. DOI: 10.1103/PhysRevD.103.094015 .	6	2	3,0
	1.	S.-S. Wan, M. Ruggieri M, <i>The Chiral Phase Transitions of Helical Matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .			
	2.	L. Pannullo, M. Wagner, M. Winstel, <i>Inhomogeneous Phases in the Chirally Imbalanced 2+1-Dimensional Gross-Neveu Model and Their Absence in the Continuum Limit</i> , Symmetry 14 (2022) 265. DOI: 10.3390/sym14020265 .			
	3.	H. H. Peng, S. H. Wu, R. J. Wang, D. She, S. Pu, <i>Anomalous magnetohydrodynamics with temperature-dependent electric conductivity and application to the global polarization</i> , Phys. Rev. D 107 (2023) 096010. DOI: 10.1103/PhysRevD.107.096010 .			
	4.	S. M. A. T. Mehr, F. Taghinavaz, <i>Chiral phase transition of a dense, magnetized and rotating quark matter</i> , Ann. Phys. 454 (2023) 169357. DOI: 10.1016/j.aop.2023.169357 .			
	5.	X. Tong, Y. Wang, C. Zhang, Y. H. Zhu, <i>BCS in the sky: signatures of inflationary fermion condensation</i> , J. Cosmol. Astropart. Phys. 04 (2024) 022. DOI: 10.1088/1475-7516/2024/04/022 .			

	6.	C. Coriano, M. Creti, S. Lionetti, R. Tommasi, <i>Axionlike quasiparticles and topological states of matter: Finite density corrections of the chiral anomaly vertex</i> , Phys. Rev. D 110 (2024) 025014. DOI: 10.1103/PhysRevD.110.025014 .			
XLIII.		V. E. Ambruș, M. N. Chernodub, <i>Hyperon--anti-hyperon polarization asymmetry in relativistic heavy-ion collisions as an interplay between chiral and helical vortical effects</i> . Eur. J. Phys. C 82 (2022) 61. DOI: 10.1140/epjc/s10052-022-10002-y .	15	2	7,5
	1.	B. Fu, K. Xu, X.-G. Huang, H. Song, <i>Hydrodynamic study of hyperon spin polarization in relativistic heavy ion collisions</i> , Phys. Rev. C 103 (2021) 024903. DOI: 10.1103/PhysRevC.103.024903 .			
	2.	M. Ammon, S. Griener, J. Hernandez, M. Kaminski, R. Koirala, <i>Chiral hydrodynamics in strong external magnetic fields</i> , JHEP 04 (2021) 078. DOI: 10.1007/JHEP04(2021)078 .			
	3.	S.-S. Wan, M. Ruggieri, <i>The Chiral Phase Transitions of Helical Matter</i> , Phys. Rev. D 103 (2021) 094030. DOI: 10.1103/PhysRevD.103.094030 .			
	4.	J.-H. Gao, <i>Helicity polarization in relativistic heavy ion collisions</i> , Phys. Rev. D 104 (2021) 076016. DOI: 10.1103/PhysRevD.104.076016 .			
	5.	W. Florkowski, R. Ryblewski, R. Singh, G. Sophys, <i>Spin polarization dynamics in the non-boost-invariant background</i> , Phys. Rev. D 105 (2022) 054007. DOI: 10.1103/PhysRevD.105.054007 .			
	6.	C. Yi, S. Pu, J.-H. Gao, D.-L. Yang, <i>Hydrodynamic helicity polarization in relativistic heavy ion collisions</i> , Phys. Rev. C 105 (2022) 044911. DOI: 10.1103/PhysRevC.105.044911 .			
	7.	K. Xu, F. Lin, A. Huang, M. Huang, <i>$\Lambda/\bar{\Lambda}$ polarization and splitting induced by rotation and magnetic field</i> , Phys. Rev. D 106 (2022) L071502. DOI: 10.1103/PhysRevD.106.L071502 .			
	8.	M. Buzzegoli, D. E. Kharzeev, Y.-C. Liu, S. Shi, S. A. Voloshin, <i>Shear-induced anomalous transport and charge asymmetry of triangular flow in heavy-ion collisions</i> , Phys. Rev. C 106 (2022) L051902. DOI: 10.1103/PhysRevC.106.L051902 .			
	9.	R. Singh, M. Shokri, S. M. A. T. Mehr, <i>Relativistic hydrodynamics with spin in the presence of electromagnetic fields</i> , Nucl. Phys. A 1035 (2023) 122656. DOI: 10.1016/j.nuclphysa.2023.122656 .			
	10.	H. H. Peng, S. H. Wu, R. J. Wang, D. She, S. Pu, <i>Anomalous magnetohydrodynamics with temperature-dependent electric conductivity and application to the global polarization</i> , Phys. Rev. D 107 (2023) 096010. DOI: 10.1103/PhysRevD.107.096010 .			
	11.	M. Buzzegoli, <i>Spin polarization induced by magnetic field and the relativistic Barnett effect</i> , Nucl. Phys. A 1036 (2023) 122674. DOI: 10.1016/j.nuclphysa.2023.122674 .			
	12.	F. Becattini, M. Buzzegoli, T. Niida, S. Pu, A. H. Tang, Q. Wang, <i>Spin polarization in relativistic heavy-ion collisions</i> , Int. J. Mod. Phys. E 33 (2024) 2430006. DOI: 10.1142/S0218301324300066 .			
	13.	L. H. Dong, S. Lin, <i>Polarization dynamics in the paramagnet of a charged quark-gluon plasma</i> , Phys. Rev. D 110 (2024) 016004. DOI: 10.1103/PhysRevD.110.016004 .			
	14.	C. Yi, X.-Y. Wu, D.-L. Yang, J.-H. Gao, S. Pu, G.-Y. Qin, <i>Probing vortical structures in heavy-ion collisions at RHIC-BES energies through helicity polarization</i> , Phys. Rev. C 109 (2024) L011901. DOI: 10.1103/PhysRevC.109.L011901 .			
	15.	C. Yi, X.-Y. Wu, J. Zhu, S. Pu, G.-Y. Qin, <i>Spin polarization of Λ hyperons along the beam direction in p+Pb collisions at $\sqrt{s_{NN}}=8.16$ TeV using hydrodynamic approaches</i> , Phys. Rev. C 111 (2025) 044901. DOI: 10.1103/PhysRevC.111.044901 .			
XLIV.		V. E. Ambruș, E. Winstanley, <i>Vortical effects for free fermions on anti-de Sitter space-time</i> . Symmetry 13 (2021) 2019. DOI: 10.3390/sym13112019 .	7	2	3,5
	1.	G. Yu. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Chiral Vortical Effect in Extended Rarita-Schwinger Field Theory and Chiral Anomaly</i> . Phys. Rev. D 105 (2022) L041701. DOI: 10.1103/PhysRevD.105.L041701 .			
	2.	G. Yu. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Hydrodynamic Manifestations of Gravitational Chiral Anomaly</i> . Phys. Rev. Lett. 129 (2022) 151601. DOI: 10.1103/PhysRevLett.129.151601 .			
	3.	G. Y. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Gravitational chiral anomaly and anomalous transport for fields with spin 3/2</i> , Phys. Lett. B 840 (2023) 137839. DOI: 10.1016/j.physletb.2023.137839 .			
	4.	M. Shokri, D. H. Rischke, <i>Linear stability analysis in inhomogeneous equilibrium configurations</i> , Phys. Rev. D 108 (2023) 096029. DOI: 10.1103/PhysRevD.108.096029 .			
	5.	R. V. Khakhimov, G. Yu. Prokhorov, O. V. Teryaev, V. I. Zakharov, <i>Unruh effect in curved spacetime and hydrodynamics</i> . Phys. Rev. D 108 (2023) L121701. DOI: 10.1103/PhysRevD.108.L121701 .			
	6.	G. E. Volovik, <i>Thermodynamics and Decay of de Sitter Vacuum</i> , Symmetry 16 (2024) 763. DOI: 10.3390/sym16060763 .			
	7.	R. V. Khakhimov, G. Yu. Prokhorov, O. V. teryaev, V. I. Zakharov, <i>Hydrodynamical dual of the gravitational axial anomaly and the cosmological constant</i> , Phys. Rev. D 109 (2024) 105001. DOI: 10.1103/PhysRevD.109.105001 .			
XLV.		V. E. Ambruș, S. Busuioc, J. A. Fotakis, K. Gallmeister, C. Greiner, <i>Bjorken flow attractors with transverse dynamics</i> , Phys. Rev. D 104 (2021) 094022. DOI: 10.1103/PhysRevD.104.094022 .	19	5	3,8
	1.	M. P. Heller, A. Serantes, M. Spaliński, V. Svensson, B. Withers, <i>Transseries for causal diffusive systems</i> , DOI: 10.1007/JHEP04(2021)192 .			

	2.	A. Soloviev, <i>Hydrodynamic attractors in heavy ion collisions: a review</i> , Eur. Phys. J. C 82 (2022) 319. DOI: 10.1140/epjc/s10052-022-10282-4 .		
	3.	S. Jaiswal, C. Chattopadhyay, L. Du, U. Heinz, S. Pal, <i>Nonconformal kinetic theory and hydrodynamics for Bjorken flow</i> , Phys. Rev. C 105 (2022) 024911. DOI: 10.1103/PhysRevC.105.024911 .		
	4.	X. Du, M. P. Heller, S. Schlichting, V. Svensson, <i>Exponential approach to the hydrodynamic attractor in Yang-Mills kinetic theory</i> , Phys. Rev. D 106 (2022) 014016. DOI: 10.1103/PhysRevD.106.014016 .		
	5.	S. Jaiswal, J.-P. Blaizot, R. S. Bhalerao, Z. Chen, A. Jaiswal, <i>From moments of the distribution function to hydrodynamics: The nonconformal case</i> , Phys. Rev. C 106 (2022) 044912. DOI: 10.1103/PhysRevC.106.044912 .		
	6.	N. Borghini, M. Borrell, H. Roch, <i>Early time behavior of spatial and momentum anisotropies in kinetic theory across different Knudsen numbers</i> , Eur. Phys. J. C 82 (2022) 961. DOI: 10.1140/epjc/s10052-022-10914-9 .		
	7.	M. Spalinski, <i>Initial state and approach to equilibrium</i> , Acta Phys. Pol. B: Proc. Suppl. 16 (2023) 1-A9. DOI: 10.5506/APhysPolBSupp.16.1-A9 .		
	8.	N. Weickgenannt, <i>New developments in relativistic hydrodynamics</i> , Acta Phys. Pol. B: Proc. Suppl. 16 (2023) 1-A17. DOI: 10.5506/APhysPolBSupp.16.1-A17 .		
	9.	D. Simeoni, A. Gabbana, S. Succi, <i>Bjorken Flow Revisited: Analytic and Numerical Solutions in Flat Space-Time Coordinates</i> , Commun. Comput. Phys. 33 (2023) 174. DOI: 10.4208/cicp.OA-2022-0051 .		
	10.	N. Vyas, S. Jaiswal, A. Jaiswal, <i>Metric anisotropies and nonequilibrium attractor for expanding plasma</i> , Phys. Lett. B 841 (2023) 137943. DOI: 10.1016/j.physletb.2023.137943 .		
	11.	S. Kamata, J. Jankowski, M. Martinez, <i>Novel features of attractors and transseries in nonconformal Bjorken flows</i> , Phys. Rev. D 107 (2023) 116004. DOI: 10.1103/PhysRevD.107.116004 .		
	12.	J. Jankowski, M. Spalinski, <i>Hydrodynamic attractors in ultrarelativistic nuclear collisions</i> , Progr. Part. Nucl. Phys. 132 (2023) 104048. DOI: 10.1016/j.ppnp.2023.104048 .		
	13.	A. Sorensen, K. Agarwal, K. W. Brown, Z. Chajecski, P. Danielewicz, C. Drischler, et al., <i>Dense nuclear matter equation of state from heavy-ion collisions</i> , Progr. Part. Nucl. Phys. 134 (2024) 104080. DOI: 10.1016/j.ppnp.2023.104080 .		
	14.	N. Weickgenannt, J. P. Blaizot, <i>Chiral hydrodynamics of expanding systems</i> , Phys. Rev. D 109 (2024) 056012. DOI: 10.1103/PhysRevD.109.056012 .		
	15.	A. Daher, W. Florkowski, R. Ryblewski, F. Taghinavaz, <i>Stability and causality of rest frame modes in second-order spin hydrodynamics</i> , Phys. Rev. D 109 (2024) 114001. DOI: 10.1103/PhysRevD.109.114001 .		
	16.	V. Nugara, S. Plumari, L. Oliva, V. Greco, <i>Far-from-equilibrium attractors with full relativistic Boltzmann approach in boost-invariant and non-boost-invariant systems</i> , Eur. Phys. J. C 84 (2024) 861. DOI: 10.1140/epjc/s10052-024-13227-1 .		
	17.	L. Oliva, W. Fan, P. Moreau, S. A. Bass, E. Bratkovskaya, <i>Non-equilibrium effects and sphericity in relativistic proton-nucleus collisions</i> , Nuovo Cimento C – Colloquia Commun. Phys. 48 (2025) 15. DOI: 10.1393/ncc/i2025-25015-4 .		
	18.	S. L. Chen, S. Z. Shi, <i>Attractor for (1+1)D viscous hydrodynamics with general rapidity distribution</i> , Phys. Rev. C 111 (2025) L021902. DOI: 10.1103/PhysRevC.111.L021902 .		
	19.	V. Nugara, V. Greco, S. Plumari, <i>Far-from-equilibrium attractors with Full Relativistic Boltzmann approach in 3+1D: moments of distribution function and anisotropic flows vn</i> , Eur. Phys. J. C 85 (2025) 311. DOI: 10.1140/epjc/s10052-025-14029-9 .		
XLVI.		V. E. Ambruș, C. Werthmann, S. Schlichting, <i>Development of transverse flow at small and large opacities in conformal kinetic theory</i> , Phys. Rev. D 105 (2022) 014031. DOI: 10.1103/PhysRevD.105.014031 .	17	3
	1.	S. Floerchinger, G. Giacalone, L. H. Heyen, L. Tharwat, <i>Qualifying collective behavior in expanding ultracold gases as a function of particle number</i> , Phys. Rev. C 105 (2022) 044908. DOI: 10.1103/PhysRevC.105.044908 .		
	2.	M. Borrell, N. Borghini, <i>Early time behavior of spatial and momentum anisotropies in a kinetic approach to nuclear collisions</i> , Eur. Phys. J. C 82 (2022) 525. DOI: 10.1140/epjc/s10052-022-10492-w .		
	3.	D. Liyanage, D. Everett, C. Chattopadhyay, U. Heinz, <i>Prehydrodynamic evolution and its impact on quark-gluon plasma signatures</i> , Phys. Rev. C 105 (2022) 064908. DOI: 10.1103/PhysRevC.105.064908 .		
	4.	X. Du, M. P. Heller, S. Schlichting, V. Svensson, <i>Exponential approach to the hydrodynamic attractor in Yang-Mills kinetic theory</i> , Phys. Rev. D 106 (2022) 014016. DOI: 10.1103/PhysRevD.106.014016 .		
	5.	N. Borghini, M. Borrell, H. Roch, <i>Early time behavior of spatial and momentum anisotropies in kinetic theory across different Knudsen numbers</i> , Eur. Phys. J. C 82 (2022) 961. DOI: 10.1140/epjc/s10052-022-10914-9 .		
	6.	B. Bachmann, N. Borghini, N. Feld, H. Roch, <i>On differences between even and odd anisotropic-flow harmonics in non-equilibrated systems</i> , Eur. Phys. J. C 83 (2023) 114. DOI: 10.1140/epjc/s10052-023-11256-w .		
	7.	P. Bozek, <i>Interplay of longitudinal and transverse expansion in the kinetic dynamics of heavy-ion collisions</i> , Phys. Rev. C 107 (2023) 034916. DOI: 10.1103/PhysRevC.107.034916 .		

	8.	S. Ji, M. Virta, T. Kallio, S. H. Lim, D. J. Kim, <i>Toward unbiased flow measurements in pp collisions at the CERN Large Hadron Collider</i> , Phys. Rev. C 108 (2023) 034909. DOI: 10.1103/PhysRevC.108.034909 .			
	9	S. Ochsensfeld, S. Schlichting, <i>Hydrodynamic and non-hydrodynamic excitations in kinetic theory - a numerical analysis in scalar field theory</i> , J. High Energy Phys. 09 (2023) 186. DOI: 10.1007/JHEP09(2023)186 .			
	10.	P. Carzon, M. Martinez, J. Noronha-Hostler, P. Plaschke, S. Schlichting, M. Sievert, <i>Pre-equilibrium evolution of conserved charges with initial conditions in the ICCING Monte Carlo event generator</i> , Phys. Rev. C 108 (2023) 064905. DOI: 10.1103/PhysRevC.108.064905 .			
	11.	A. Kurkela, R. Tornkvist, K. Zapp, <i>AMY Lorentz invariant parton cascade: the thermal equilibrium case</i> , Eur. Phys. J. C 84 (2024) 74. DOI: 10.1140/epjc/s10052-024-12424-2 .			
	12.	ALICE collaboration, <i>Multiplicity and event-scale dependent flow and jet fragmentation in pp collisions at $\sqrt{s}=13$ TeV and in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV</i> , J. High Energy Phys. 03 (2024) 092. DOI: 10.1007/JHEP03(2024)092 .			
	13.	R. Tornkvist, K. Zapp, <i>Small systems and the single-hit approximation in the AMY parton cascade ALPACA</i> , Phys. Lett. B 856 (2024) 138952. DOI: 10.1016/j.physletb.2024.138952 .			
	14.	M. Strickland, <i>Hydrodynamization and resummed viscous hydrodynamics</i> , Int. J. Mod. Phys. E 33 (2024) 2430004. DOI: 10.1142/S0218301324300042 .			
	15.	F. Frasca, A. Beraudo, M. Strickland, <i>Far-from-equilibrium attractors in kinetic theory for a mixture of quark and gluon fluids</i> , Nucl. Phys. A 1055 (2025) 123008. DOI: 10.1016/j.nuclphysa.2024.123008 .			
	16.	V. Nugara, V. Greco, S. Plumari, <i>Far-from-equilibrium attractors with Full Relativistic Boltzmann approach in 3+1D: moments of distribution function and anisotropic flows v_n</i> , Eur. Phys. J. C 85 (2025) 311. DOI: 10.1140/epjc/s10052-025-14029-9 .			
	17.	ALICE collaboration, <i>Multiplicity-dependent jet modification from di-hadron correlations in pp collisions at $\sqrt{s} = 13$ TeV</i> , J. High Energy Phys. 03 (2025) 194. DOI: 10.1007/JHEP03(2025)194 .			
XLVII.		V. E. Ambruș, E. Molnár, D. H. Rischke, <i>Transport coefficients of second-order relativistic fluid dynamics in the relaxation-time approximation</i> , Phys. Rev. D 106 (2022) 076005. DOI: 10.1103/PhysRevD.106.076005 .	7	3	2,333
	1.	N. M. Granese, A. Kandus, E. Calzetta, <i>Field Theory Approaches to Relativistic Hydrodynamics</i> , Entropy 24 (2022) 1790. DOI: 10.3390/e24121790 .			
	2	D. Wagner, L. Gavassino, <i>Regime of applicability of Israel-Stewart hydrodynamics</i> , Phys. Rev. D 109 (2024) 016019. DOI: 10.1103/PhysRevD.109.016019 .			
	3.	G. S. Rocha, L. Gavassino, N. Mullins, <i>Modeling stochastic fluctuations in relativistic kinetic theory</i> , Phys. Rev. D 110 (2024) 016020. DOI: 10.1103/PhysRevD.110.016020 .			
	4.	A. K. Panda, P. Bagchi, H. Mishra, V. Roy, <i>Electromagnetic fields in low-energy heavy-ion collisions with baryon stopping</i> , Phys. Rev. C 110 (2024) 024902. DOI: 10.1103/PhysRevC.110.024902 .			
	5.	S. Kamata, <i>Resurgence for the nonconformal Bjorken flow with Fermi-Dirac and Bose-Einstein statistics</i> . Phys. Rev. D 110 (2024) 116020. DOI: 10.1103/PhysRevD.110.116020 .			
	6.	D. Wagner, <i>Resummed spin hydrodynamics from quantum kinetic theory</i> , Phys. Rev. D 111 (2025) 016008. DOI: 10.1103/PhysRevD.111.016008 .			
	7.	E. Molnar, D. H. Rischke, <i>Higher-order dissipative anisotropic magnetohydrodynamics from the Boltzmann-Vlasov equation</i> , Phys. Rev. D 111 (2025) 036035. DOI: 10.1103/PhysRevD.111.036035 .			
XLVIII.		V. E. Ambruș, R. Ryblewski, R. Singh, <i>Spin waves in spin hydrodynamics</i> , Phys. Rev. D 106 (2022) 014018. DOI: 10.1103/PhysRevD.106.014018 .	13	3	4,333
	1.	S. Bhadury, W. Florkowski, A. Jaiswal, A. Kumar, R. Ryblewski, <i>Relativistic Spin Magnetohydrodynamics</i> , Phys. Rev. Lett. 129 (2022) 192301. DOI: 10.1103/PhysRevLett.129.192301 .			
	2.	A. Das, W. Florkowski, A. Kumar, R. Ryblewski, R. Singh, <i>Semi-classical kinetic theory for massive spin-half fermions with leading-order spin effects</i> , Acta Phys. Pol. B 54 (2023) A4. DOI: 10.5506/APhysPolB.54.8-A4 .			
	3.	J. Hu, <i>Linear mode analysis and spin relaxation</i> , Phys. Rev. D 105 (2022) 096021. DOI: 10.1103/PhysRevD.105.096021 .			
	4.	J. Hu, Z. He, <i>Propagation of spin channel waves</i> , Phys. Rev. D 107 (2023) 016010. DOI: 10.1103/PhysRevD.107.016010 .			
	5.	A. Daher, A. Das, R. Ryblewski, <i>Stability studies of first-order spin-hydrodynamic frameworks</i> , Phys. Rev. D 107 (2023) 054043. DOI: 10.1103/PhysRevD.107.054043 .			

	6.	R. Singh, <i>Collective dynamics of polarized spin-half fermions in relativistic heavy-ion collisions</i> , Int. J. Mod. Phys. A 38 (2023) 2330011. DOI: 10.1142/S0217751X23300119 .			
	7.	N. Weickgenannt, <i>Linearly stable and causal relativistic first-order spin hydrodynamics</i> , Phys. Rev. D 108 (2023) 076011. DOI: 10.1103/PhysRevD.108.076011 .			
	8.	G. S. Rocha, D. Wagner, G. S. Denicol, J. Noronha, D. H. Rischke, <i>Theories of Relativistic Dissipative Fluid Dynamics</i> , Entropy 26 (2024) 189. DOI: 10.3390/e26030189 .			
	9.	A. Daher, W. Florkowski, R. Ryblewski, F. Taghinavaz, <i>Stability and causality of rest frame modes in second-order spin hydrodynamics</i> , Phys. Rev. D 109 (2024) 114001. DOI: 10.1103/PhysRevD.109.114001 .			
	10.	A. Daher, W. Florkowski, R. Ryblewski, <i>Stability constraint for spin equation of state</i> , Phys. Rev. D 110 (2024) 034029. DOI: 10.1103/PhysRevD.110.034029 .			
	11.	D. Wagner, M. Shokri, D. H. Rischke, <i>Damping of spin waves</i> , Phys. Rev. Res. 6 (2024) 043103. DOI: 10.1103/PhysRevResearch.6.043103 .			
	12.	D. Wagner, <i>Resummed spin hydrodynamics from quantum kinetic theory</i> , Phys. Rev. D 111 (2025) 016008. DOI: 10.1103/PhysRevD.111.016008 .			
	13.	S. Bhadury, <i>Relativistic spin hydrodynamics with momentum- and spin-dependent relaxation time</i> , Phys. Rev. C 111 (2025) 034909. DOI: 10.1103/PhysRevC.111.034909 .			
XLIX.		V. E. Ambruș, L. Bazzanini, A. Gabbana, D. Simeoni, S. Succi, R. Tripiccone, <i>Fast kinetic simulator for relativistic matter</i> , Nat. Comput. Sci. 2 (2022) 641. DOI: 10.1038/s43588-022-00333-x .	4	5,5	0,727
	1.	D. Liyanage, D. Everett, C. Chattopadhyay, U. Heinz, <i>Prehydrodynamic evolution and its impact on quark-gluon plasma signatures</i> , Phys. Rev. C 105 (2022) 064908. DOI: 10.1103/PhysRevC.105.064908 .			
	2.	P. Romatschke, <i>Simulating fluids, gases and everything in between</i> , Nat. Comput. Sci. 2 (2022) 626. DOI: 10.1038/s43588-022-00337-7 .			
	3.	S. Succi, <i>Lattice Fluid Dynamics: Thirty-five Years Down the Road</i> , C. R. Mec. 350 (2022) 207-218. DOI: 10.5802/crmeca.161 .			
	4.	D. Simeoni, G. Parise, F. Guglietta, A. R. Rossi, J. Rosenzweig, A. Cianchi, M. Sbragaglia, <i>Lattice Boltzmann method for warm fluid simulations of plasma wakefield acceleration</i> , Phys. Plasmas 31 (2024) 013904. DOI: 10.1063/5.0175910 .			
L.		D. Wagner, A. Palermo, V. E. Ambruș, <i>Inverse-Reynolds-dominance approach to transient fluid dynamics</i> , Phys. Rev. D 106 (2022) 016013. DOI: 10.1103/PhysRevD.106.016013 .	17	3	5,666
	1.	K. Hattori, M. Hongo, X.-G. Huang, <i>New Developments in Relativistic Magnetohydrodynamics</i> , Entropy 14 (2022) 1851. DOI: 10.3390/sym14091851 .			
	2.	L. Gavassino, <i>Is relativistic hydrodynamics always symmetric-hyperbolic in the linear regime?</i> , Phys. Rev. D 107 (2023) 065013. DOI: 10.1103/PhysRevD.107.065013 .			
	3.	J. Sammet, M. Mayer, D. H. Rischke, <i>Linear stability analysis of Israel-Stewart theory in the case of a nonzero background charge</i> , Phys. Rev. D 107 (2023) 114028. DOI: 10.1103/PhysRevD.107.114028 .			
	4.	J. De Nardis, B. Doyon, <i>Hydrodynamic gauge fixing and higher order hydrodynamic expansion</i> , J. Phys. A-Math. Theor. 56 (2023) 245001. DOI: 10.1088/1751-8121/acd153 .			
	5.	G. S. Rocha, C. V. P. de Brito, G. S. Denicol, <i>Hydrodynamic theories for a system of weakly self-interacting classical ultrarelativistic scalar particles: Microscopic derivations and attractors</i> , Phys. Rev. D 108 (2023) 036017. DOI: 10.1103/PhysRevD.108.036017 .			
	6.	D. Wagner, L. Gavassino, <i>Regime of applicability of Israel-Stewart hydrodynamics</i> , Phys. Rev. D 109 (2024) 016019. DOI: 10.1103/PhysRevD.109.016019 .			
	7.	L. Gavassino, <i>Mapping GENERIC Hydrodynamics into Carter's Multifluid Theory</i> , Symmetry 16 (2024) 78. DOI: 10.3390/sym16010078 .			
	8.	A. Sorensen, K. Agarwal, K. W. Brown, Z. Chajecski, P. Danielewicz, C. Drischler, et al., <i>Dense nuclear matter equation of state from heavy-ion collisions</i> , Progr. Part. Nucl. Phys. 134 (2024) 104080. DOI: 10.1016/j.pnpnp.2023.104080 .			
	9.	G. S. Rocha, D. Wagner, G. S. Denicol, J. Noronha, D. H. Rischke, <i>Theories of Relativistic Dissipative Fluid Dynamics</i> , Entropy 26 (2024) 189. DOI: 10.3390/e26030189 .			
	10.	L. Gavassino, N. Abboud, E. Speranza, J. Noronha, <i>First-order relativistic hydrodynamics with an information current</i> , Phys. Rev. D 109 (2024) 085013. DOI: 10.1103/PhysRevD.109.085013 .			

	11.	L. Gavassino, M. Disconzi, J. Noronha, <i>Universality classes of relativistic fluid dynamics: Applications</i> , Phys. Rev. D 109 (2024) 096041. DOI: 10.1103/PhysRevD.109.096041 .			
	12.	L. Gavassino, M. Disconzi, J. Noronha, <i>Universality classes of relativistic fluid dynamics: Foundations</i> , Phys. Rev. Lett. 132 (2024) 222302. DOI: 10.1103/PhysRevLett.132.222302 .			
	13.	G. S. Rocha, L. Gavassino, N. Mullins, <i>Modeling stochastic fluctuations in relativistic kinetic theory</i> , Phys. Rev. D 110 (2024) 016020. DOI: 10.1103/PhysRevD.110.016020 .			
	14.	C. V. P. de Brito, G. S. Denicol, <i>Method of moments for a relativistic single-component gas</i> , Phys. Rev. D 110 (2024) 036017. DOI: 10.1103/PhysRevD.110.036017 .			
	15.	G. S. Rocha, I. Danhoni, K. Ingles, G. S. Denicol, J. Noronha, <i>Branch-cut in the shear-stress response function of massless $\lambda\phi^4$ with Boltzmann statistics</i> , Phys. Rev. D 110 (2024) 076003. DOI: 10.1103/PhysRevD.110.076003 .			
	16.	A. Kandus, E. Calzetta, <i>Propagation Speeds of Relativistic Conformal Particles from a Generalized Relaxation Time Approximation</i> , Entropy 26 (2024) 927. DOI: 10.3390/e26110927 .			
	17.	D. Wagner, <i>Resummed spin hydrodynamics from quantum kinetic theory</i> , Phys. Rev. D 111 (2025) 016008. DOI: 10.1103/PhysRevD.111.016008 .			
LI.		V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Development Of Transverse Flow For Small And Large Systems In Conformal Kinetic Theory</i> , Acta Phys. Pol. B-Proc. Ser. 16 (2023) 1-A32. DOI: 10.5506/APhysPolBSupp.16.1-A32 .	1	3	0,333
	1.	V. Nugara, V. Greco, S. Plumari, <i>Far-from-equilibrium attractors with Full Relativistic Boltzmann approach in 3+1D: moments of distribution function and anisotropic flows vn</i> , Eur. Phys. J. C 85 (2025) 311. DOI: 10.1140/epjc/s10052-025-14029-9 .			
LII.		V. E. Ambruș, S. Schlichting, C. Werthmann, <i>Establishing the range of applicability of hydrodynamics in high-energy collisions</i> , Phys. Rev. Lett. 130 (2023) 152301. DOI: 10.1103/PhysRevLett.130.152301 .	19	3	6,333
	1.	P. Bozek, <i>Interplay of longitudinal and transverse expansion in the kinetic dynamics of heavy-ion collisions</i> , Phys. Rev. C 107 (2023) 034916. DOI: 10.1103/PhysRevC.107.034916 .			
	2.	M. J. Li, W. Y. Qian, B. Wu, H. Zhang, <i>Anisotropic flow and the valence quark skeleton of hadrons</i> , J. High Energy Phys. 8 (2023) 144. DOI: 10.1007/JHEP08(2023)144 .			
	3.	J. Jankowski, M. Spalinski, <i>Hydrodynamic attractors in ultrarelativistic nuclear collisions</i> , Progr. Part. Nucl. Phys. 132 (2023) 104048. DOI: 10.1016/j.pnpnp.2023.104048 .			
	4.	S. Ochsensfeld, S. Schlichting, <i>Hydrodynamic and non-hydrodynamic excitations in kinetic theory - a numerical analysis in scalar field theory</i> , J. High Energy Phys. 09 (2023) 186. DOI: 10.1007/JHEP09(2023)186 .			
	5.	X. J. Du, S. Ochsensfeld, S. Schlichting, <i>Universality of energy-momentum response in kinetic theories</i> , Phys. Lett. B 845 (2023) 138161. DOI: 10.1016/j.physletb.2023.138161 .			
	6.	P. Carzon, M. Martinez, J. Noronha-Hostler, P. Plaschke, S. Schlichting, M. Sievert, <i>Pre-equilibrium evolution of conserved charges with initial conditions in the ICCING Monte Carlo event generator</i> , Phys. Rev. C 108 (2023) 064905. DOI: 10.1103/PhysRevC.108.064905 .			
	7.	D. Dash, S. Jaiswal, S. Bhadury, A. Jaiswal, <i>Relativistic second-order viscous hydrodynamics from kinetic theory with extended relaxation-time approximation</i> , Phys. Rev. C 108 (2023) 064913. DOI: 10.1103/PhysRevC.108.064913 .			
	8.	X. J. Du, <i>Heavy quark drag and diffusion coefficients in the prehydrodynamic QCD plasma</i> , Phys. Rev. C 109 (2024) 014901. DOI: 10.1103/PhysRevC.109.014901 .			
	9.	D. Prokhorova, E. Andronov, <i>Emergent Flow Signal and the Colour String Fusion</i> , Physics 6 (2024) 264-289. DOI: 10.3390/physics6010019 .			
	10.	A. Daher, W. Florkowski, R. Ryblewski, F. Taghinavaz, <i>Stability and causality of rest frame modes in second-order spin hydrodynamics</i> , Phys. Rev. D 109 (2024) 114001. DOI: 10.1103/PhysRevD.109.114001 .			
	11.	K. Boguslavski, A. Kurkela, T. Lappi, F. Lindenbauer, J. Peuron, <i>Jet quenching parameter in QCD kinetic theory</i> , Phys. Rev. D 110 (2024) 034019. DOI: 10.1103/PhysRevD.110.034019 .			
	12.	D. Prokhorova, E. Andronov, <i>Azimuthal Two-Particle Correlations as a Probe of Colour String Fusion in p plus p Collisions</i> , Phys. Part. Nucl. 55 (2024) 874-878. DOI: 10.1134/S1063779624700424 .			
	13.	M. Strickland, <i>Hydrodynamization and resummed viscous hydrodynamics</i> , Int. J. Mod. Phys. E 33 (2024) 2430004. DOI: 10.1142/S0218301324300042 .			
	14.	S. Dey, S. Bhadury, W. Florkowski, R. Ryblewski, A. Jaiswal, <i>Energy-momentum correlators of fermions at finite temperature and density</i> , Phys. Rev. D 110 (2024) 116002. DOI: 10.1103/PhysRevD.110.116002 .			
	15.	X. An, M. Spalinski, <i>QGP physics from attractor perturbations</i> , Phys. Rev. D 110 (2024) 114043. DOI: 10.1103/PhysRevD.110.114043 .			

	16	S. Brandstetter, P. Lunt, C. Heintze, G. Giacalone, L. H. Heyen, M. Galka, K. Subramanian, M. Holten, P. M. Preiss, S. Floerchinger, S. Jochim, <i>Emergent interaction-driven elliptic flow of few fermionic atoms</i> , Nat. Phys. 21 (2025) 52-56. DOI: 10.1038/s41567-024-02705-8 .			
	17.	F. Frasca, A. Beraudo, M. Strickland, <i>Far-from-equilibrium attractors in kinetic theory for a mixture of quark and gluon fluids</i> , Nucl. Phys. A 1055 (2025) 123008. DOI: 10.1016/j.nuclphysa.2024.123008 .			
	18.	V. Nugara, V. Greco, S. Plumari, <i>Far-from-equilibrium attractors with Full Relativistic Boltzmann approach in 3+1D: moments of distribution function and anisotropic flows vn</i> , Eur. Phys. J. C 85 (2025) 311. DOI: 10.1140/epjc/s10052-025-14029-9 .			
	19.	O. Garcia-Montero, S. Schlichting, <i>Effective theories for nuclei at high energies</i> , Eur. Phys. J. A 61 (2025) 54. DOI: 10.1140/epja/s10050-025-01523-7 .			
LIII.		V. E. Ambruș, C. Werthmann, S. Schlichting, <i>Opacity dependence of transverse flow, preequilibrium, and applicability of hydrodynamics in heavy-ion collisions</i> , Phys. Rev. D 107 (2023) 094013. DOI: 10.1103/PhysRevD.107.094013 .	7	3	2,333
	1.	P. Bozek, <i>Interplay of longitudinal and transverse expansion in the kinetic dynamics of heavy-ion collisions</i> , Phys. Rev. C 107 (2023) 034916. DOI: 10.1103/PhysRevC.107.034916 .			
	2.	J. Jankowski, M. Spalinski, <i>Hydrodynamic attractors in ultrarelativistic nuclear collisions</i> , Progr. Part. Nucl. Phys. 132 (2023) 104048. DOI: 10.1016/j.pnpnp.2023.104048 .			
	3.	X. J. Du, S. Ochsensfeld, S. Schlichting, <i>Universality of energy-momentum response in kinetic theories</i> , Phys. Lett. B 845 (2023) 138161. DOI: 10.1016/j.physletb.2023.138161 .			
	4.	V. V. Braguta, M. N. Chernodub, I. E. Kudrov, A. A. Roenko, D. A. Sychev, <i>Influence of Relativistic Rotation on QCD Properties</i> , Phys. Atom. Nuclei 86 (2023) 1249-1255. DOI: 10.1134/S1063778824010150 .			
	5.	M. Strickland, <i>Hydrodynamization and resummed viscous hydrodynamics</i> , Int. J. Mod. Phys. E 33 (2024) 2430004. DOI: 10.1142/S0218301324300042 .			
	6.	V. Nugara, V. Greco, S. Plumari, <i>Far-from-equilibrium attractors with Full Relativistic Boltzmann approach in 3+1D: moments of distribution function and anisotropic flows vn</i> , Eur. Phys. J. C 85 (2025) 311. DOI: 10.1140/epjc/s10052-025-14029-9 .			
	7.	F. Frasca, A. Beraudo, M. Strickland, <i>Far-from-equilibrium attractors in kinetic theory for a mixture of quark and gluon fluids</i> , Nucl. Phys. A 1055 (2025) 123008. DOI: 10.1016/j.nuclphysa.2024.123008 .			
LIV.		D. Wagner, V. E. Ambruș, E. Molnár, <i>Analytical structure of the binary collision integral and the ultrarelativistic limit of transport coefficients of an ideal gas</i> , Phys. Rev. D 109 (2024) 056018. DOI: 10.1103/PhysRevD.109.056018 .	6	3	2,0
	1.	D. Wagner, L. Gavassino, <i>Regime of applicability of Israel-Stewart hydrodynamics</i> , Phys. Rev. D 109 (2024) 016019. DOI: 10.1103/PhysRevD.109.016019 .			
	2.	V. Nugara, S. Plumari, L. Oliva, V. Greco, <i>Far-from-equilibrium attractors with full relativistic Boltzmann approach in boost-invariant and non-boost-invariant systems</i> , Eur. Phys. J. C 84 (2024) 861. DOI: 10.1140/epjc/s10052-024-13227-1 .			
	3.	G. S. Rocha, D. Wagner, G. S. Denicol, J. Noronha, D. H. Rischke, <i>Theories of Relativistic Dissipative Fluid Dynamics</i> , Entropy 26 (2024) 189. DOI: 10.3390/e26030189 .			
	4.	C. V. P. de Brito, G. S. Denicol, <i>Method of moments for a relativistic single-component gas</i> , Phys. Rev. D 110 (2024) 036017. DOI: 10.1103/PhysRevD.110.036017 .			
	5.	D. Wagner, <i>Resummed spin hydrodynamics from quantum kinetic theory</i> , Phys. Rev. D 111 (2025) 016008. DOI: 10.1103/PhysRevD.111.016008 .			
	6.	E. Molnar, D. H. Rischke, <i>Higher-order dissipative anisotropic magnetohydrodynamics from the Boltzmann-Vlasov equation</i> , Phys. Rev. D 111 (2025) 036035. DOI: 10.1103/PhysRevD.111.036035 .			
LV.		V. E. Ambruș, E. Molnár, D. H. Rischke, <i>Relativistic second-order dissipative and anisotropic fluid dynamics in the relaxation-time approximation for an ideal gas of massive particles</i> , Phys. Rev. D 109 (2024) 076001. DOI: 10.1103/PhysRevD.109.076001 .	1	3	0,333
	1.	A. Zaccone, <i>Relativistic theory of the viscosity of fluids across the entire energy spectrum</i> , Phys. Rev. E 110 (2024) L052101. DOI: 10.1103/PhysRevE.110.L052101 .			
LVI.		V. E. Ambruș, E. Molnár, <i>Shakhov-type extension of the relaxation time approximation in relativistic kinetic theory and second-order fluid dynamics</i> , Phys. Lett. B 855 (2024) 138795. DOI: 10.1016/j.physletb.2024.138795 .	1	2	0,5
	1.	A. Kandus, E. Calzetta, <i>Propagation Speeds of Relativistic Conformal Particles from a Generalized Relaxation Time Approximation</i> , Entropy 26 (2024) 927. DOI: 10.3390/e26110927 .			
LVII.		V. E. Ambruș, M. N. Chernodub, <i>Acceleration as a circular motion along an imaginary circle: Kubo-Martin-Schwinger condition for accelerating field theories in imaginary-time formalism</i> , Phys. Lett. B 855 (2024) 138757. DOI: 10.1016/j.physletb.2024.138757 .	1	2	0,5

	1.	M. N. Chernodub, V. A. Goy, A. V. Molochkov, D. V. Stephanov, A. S. Pochinok, <i>Extreme Softening of QCD Phase Transition under Weak Acceleration: First-Principles Monte Carlo Results for Gluon Plasma</i> , Phys. Rev. Lett. 134 (2025) 111904. DOI: 10.1103/PhysRevLett.134.111904 .			
LVIII.		V. E. Ambruș, D. Wagner, <i>High-order Shakhov-like extension of the relaxation time approximation in relativistic kinetic theory</i> , Phys. Rev. D 110 (2024) 056002. DOI: 10.1103/PhysRevD.110.056002 .	2	2	1,0
	1.	A. Kandus, E. Calzetta, <i>Propagation Speeds of Relativistic Conformal Particles from a Generalized Relaxation Time Approximation</i> , Entropy 26 (2024) 927. DOI: 10.3390/e26110927 .			
	2.	D. Wagner, <i>Resummed spin hydrodynamics from quantum kinetic theory</i> , Phys. Rev. D 111 (2025) 016008. DOI: 10.1103/PhysRevD.111.016008 .			
LIX.		P. Singha, V. E. Ambruș, M. N. Chernodub, <i>Inhibition of the splitting of the chiral and deconfinement transition due to rotation in QCD: The phase diagram of the linear sigma model coupled to Polyakov loops</i> , Phys. Rev. D 110 (2024) 094053. DOI: 10.1103/PhysRevD.110.094053 .	3	3	1,0
	1.	B. McInnes, <i>Superradiance in the bulk protects quantum state evolution of rapidly rotating matter on the boundary</i> , J. High Energy Phys. 08 (2024) 192. DOI: 10.1007/JHEP08(2024)192 .			
	2.	L. A. Hernandez, R. Zamora, <i>Vortical effects and the critical end point in the linear sigma model coupled to quark</i> , Phys. Rev. D 111 (2025) 036003. DOI: 10.1103/PhysRevD.111.036003 .			
	3.	R. M. Nunez, R. L. S. Farias, W. R. Tavares, V. S. Timoteo, <i>Chiral vortical catalysis constrained by LQCD simulations</i> , Phys. Rev. D 111 (2025) 056026. DOI: 10.1103/PhysRevD.111.056026 .			
Punctaj total indicator 3.1					C = 244,40

Precizări:

c_i reprezintă numărul de citări pentru publicația “ i ”.

n_i este numărul de autori ai publicației “ i ” citate.

n_i^{ef} – numărul efectiv de autori ai publicației “ i ” citate.

n_i^{ef} reprezintă numărul efectiv de autori ai itemului i și ia următoarele valori:

n_i dacă $n_i \leq 5$, $(n_i + 5)/2$ dacă $5 < n_i \leq 15$, $(n_i + 15)/3$ dacă $15 < n_i \leq 75$ și $(n_i + 45)/4$ dacă $n_i > 75$, unde n_i reprezintă numărul de autori ai articolului i. În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o

notă internă a experimentului la care candidatul este coautor, atunci n_i^{ef} poate fi dat de numărul de autori din nota internă.

Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul (autocitările);

3.2. Factorul Hirsch

$h(\text{Web of Science}) = 16$

Criterii minimale pentru recunoașterea impactului activității:

CS III, Lector universitar: C, h – nu se evaluează

CS II, Conferențiar universitar: $C \geq 20$, $h \geq 5$

CS I, Profesor universitar: $C \geq 40$ $h \geq 10$

C = 244,40 $\geq$ 20 (criteriu îndeplinit)

H = 16 $\geq$ 5 (criteriu îndeplinit)

Punctajul total CNATDCU:

$$T = A + P / 2 + I / 2 + C / 20 + h / 5$$

$$= 4,965 + 24,259 + 10,839 + 12,220 + 3,200$$

$$= 55,483$$

Criterii minimale punctaj total:

CS III, Lector universitar, $T \geq 1.5$

CS II, Conferențiar universitar: $T \geq 5$

CS I, Profesor universitar: $T \geq 12$

$T = 55,483 \geq 5$ (criteriu îndeplinit)

Indicator	A	I	P	C	h	T
Valoare minimă pentru Lector	0.5	1	1	-	-	1.5
Valoare minima pentru Conferențiar	1	2	2	20	5	5
Valoare minima pentru Profesor	2	4	4	40	10	12
Valoare realizata	4,965	21,678	48,519	244,40	16	55,483
Grad de îndeplinire	496%	1083%	2425%	1222%	320%	1109%