List of the published/accepted research papers for 2015 – 2022

Research Centre in Theoretical Physics – UVT

Year: 2022

1.	Ambrus, VE; Bazzanini, L; Gabbana, A; et al., Fast kinetic simulator for relativistic matter, Nature Computational Science, Vol. 2, No. 10, 641-654, (2022). https://doi.org/10.1038/s43588-022-00333-x IF = 0.0 AIS = 0.0
2.	Wagner, D; Palermo, A; Ambrus, VE, Inverse-Reynolds-dominance approach to transient fluid dynamics, Phys. Rev. D, Vol. 106, No. 1, 016013, (2022). https://doi.org/10.1103/PhysRevD.106.016013 IF = 5.407 AIS = 1.108 Q1
3.	Ambrus, VE; Ryblewski, R; Singh, R, Spin waves in spin hydrodynamics, Phys. Rev. D, Vol. 106, No. 1, 014018, (2022). https://doi.org/10.1103/PhysRevD.106.014018 IF = 5.407 AIS = 1.108 Q1
4.	Ambrus, VE; Schlichting, S; Werthmann, C, Development of transverse flow at small and large opacities in conformal kinetic theory, Phys. Rev. D, Vol. 105, No. 1, 014031, (2022). https://doi.org/10.1103/PhysRevD.105.014031 IF = 5.407 AIS = 1.108 Q1
5.	Ambruş, VE; Chernodub, MN, Hyperon-anti-hyperon polarization asymmetry in relativistic heavy-ion collisions as an interplay between chiral and helical vortical effects, Eur. Phys. J. C, Vol. 82, No. 1, 61, (2022). https://doi.org/10.1140/epjc/s10052-022-10002-y IF = 4.994 AIS = 1.208 Q2
6.	Ambruş, VE; Molnár, E and Rischke, D.H., Transport coefficients of second-order relativistic fluid dynamics in the relaxation-time approximation, Phys. Rev. D, Vol. 106, No. 7, 076005, (2022). https://doi.org/10.1103/PhysRevD.106.076005 IF = 5.407 AIS = 1.108 Q1
7.	Cotaescu, II, Dynamical particles in spatially flat FLRW space-times, Eur. Phys. J. C, Vol. 82, No. 1, 86, (2022). https://doi.org/10.1140/epjc/s10052-022-10023-7 IF = 4.994 AIS = 1.208 Q2
8.	Cotaescu, II, Massless fermions in spatially flat FLRW space-times, Eur. Phys. J. C, Vol. 82, No. 1, 67, (2022). https://doi.org/10.1140/epjc/s10052-022-10019-3 IF = 4.994 AIS = 1.208 Q2
9.	Cotaescu, II, First-order processes of the de Sitter QED n the rest frame vacuum, Eur. Phys. J. C, Vol. 82, No. 8, 691, (2022). https://doi.org/10.1140/epjc/s10052-022-10629-x IF = 4.994 AIS = 1.208 Q2

10.	Cotaescu, II; The role of Pryce's spin and coordinate operators in the theory of massive Dirac fermions, Eur. Phys. J. C, Vol. 82, No. 11, 1073, (2022). https://doi.org/10.1140/epjc/s10052-022-10977-8 IF = 4.994 AIS = 1.208 Q2
11.	Baloi, MA, The production of particles with well determined angular momentum in external Coulomb field on de Sitter expanding universe, Nucl. Phys. B, Vol. 980, 115796, (2022). https://doi.org/10.1016/j.nuclphysb.2022.115796 IF = 3.045 AIS = 0.882 Q2
	Q1 = 4 Q2 = 6 Q3 = 0 Q4 = 0 total = 10

Year: 2021

1.	Ambrus, VE; Busuioc, S; Fotakis, JA; Gallmeister, K; Greiner, C, Bjorken flow attractors with transverse dynamics, Phys. Rev. D, Vol. 104, No. 9, 094022, (2021). https://doi.org/10.1103/PhysRevD.103.094015 IF = 5.407 AIS = 1.108 Q1
2.	Ambrus, VE; Winstanley, E, Vortical Effects for Free Fermions on Anti-De Sitter Space-Time, Symmetry, Vol. 13, No. 11, 2019, (2021). https://doi.org/10.3390/sym13112019 IF = 2.940 AIS = 0.435 Q2
3.	Cotaescu, II, Flat limit of the de Sitter QFT in the rest frame vacuum, Chin. Phys. C, Vol. 45, No. 1, 13108, (2021). https://doi.org/10.1088/1674-1137/abc1d2 IF = 2.944 AIS = 0.770 Q2
4.	Cotaescu, II, Light from Schwarzschild black holes in de Sitter expanding universe, Eur. Phys. J. C, Vol. 81, No. 1, 32, (2021). https://doi.org/10.1140/epjc/s10052-020-08822-x IF = 4.994 AIS = 1.208 Q2
5.	Cotaescu, II, Longitudinal Doppler effect in de Sitter expanding universe, Mod. Phys. Lett. A, Vol. 36, No. 4, 2150022, (2021). https://doi.org/10.1142/S021773232150022X IF = 1.594 AIS = 0.298 Q2
6.	Brevik, I; Chaichian, M; Cotaescu, II, Remarks on the Abraham-Minkowski problem, from the formal and from the experimental side, Int. J. Mod. Phys. A, Vol. 36, 8-92150063, (2021). https://doi.org/10.1142/S0217751X21500639 IF = 1.594 AIS = 0.386 Q2
7.	Chernodub, MN; Ambrus, VE, Phase diagram of helically imbalanced QCD matter, Phys. Rev. D, Vol. 103, No. 9, 94015, (2021). https://doi.org/10.1103/PhysRevD.103.094015 IF = 5.407 AIS = 1.108 Q1

8.	Cotaescu, II, Quantum theory of redshift in de Sitter expanding universe, Eur. Phys. J. C, Vol. 81, No. 6, 553, (2021). https://doi.org/10.1140/epjc/s10052-021-09307-1 IF = 4.994 AIS = 1.208 Q2
9.	Cotaescu, II; Cotaescu, I, Maxwell wave packets in de Sitter expanding universe, Eur. Phys. J. C, Vol. 81, No. 7, 667, (2021). https://doi.org/10.1140/epjc/s10052-021-09462-5 IF = 4.994 AIS = 1.208 Q2
10.	Cotaescu, II, Light from Reissner-Nordstrom-de Sitter black holes, Mod. Phys. Lett. A, Vol. 36, No. 22, 2150162, (2021). https://doi.org/10.1142/S0217732321501625 IF = 1.594 AIS = 0.298 Q2
11.	Cotaescu, II, Kinemaitcs in spatially flat FLRW spacetimes, Chin. Phys. C, Vol. 45, No. 10, 105101, (2021). https://doi.org/10.1088/1674-1137/ac1576 IF = 2.944 AIS = 0.770 Q2
12.	Cotaescu, II, Maxwell field in spatially flat FLRW space-times, Eur. Phys. J. C, Vol. 81, No. 10, 908, (2021). https://doi.org/10.1140/epjc/s10052-021-09698-1 IF = 4.994 AIS = 1.208 Q2
	Q1 = 2 Q2 = 10 Q3 = 0 Q4 = 0 total = 12

Year: 2020

1.	Djuissi, E; Bogdan, R; Abdoulanziz, A; et al., Electron Driven Reactive Processes Involving H-2(+) And Hd+ Molecular Cations In The Early Universe, Rom. Astron. J., Vol. 30, No. 2, 101-111 (2020). https://doi.org/nan IF = n/a AIS = 0.017 Q4
2.	Busuioc, S; Ambrus, VE; Biciusca, T; et al., Two-dimensional off-lattice Boltzmann model for van der Waals fluids with variable temperature, Comput. Math. Appl., Vol. 79, No. 1, 111-140 (2020). https://doi.org/10.1016/j.camwa.2018.12.015 IF = 3.476 AIS = 0.928 Q1
3.	Iacob, F, Electron transport through nanosystems driven by pseudo-Gaussian well scattering, Nanosyst.-Phys. Chem. Math., Vol. 11, No. 1, 44-49 (2020). https://doi.org/10.17586/2220-8054-2020-11-1-44-49 IF = n/a AIS = 0.122 Q4
4.	Sporea, CA, Scattering of quantum fields by a MOG black hole, Mod. Phys. Lett. A, Vol. 35, No. 15, 2050121, (2020). https://doi.org/10.1142/S0217732320501217 IF = 2.066 AIS = 0.32 Q2
5.	Cotaescu, II; Popescu, D, First order QED processes in a spatially flat FLRW space-time with a Milne-type scale factor, Chin. Phys. C, Vol. 44, No. 5, 55104, (2020). https://doi.org/10.1088/1674-1137/44/5/055104 IF = 2.145 AIS = 0.683 Q3

6.	Cotaescu, II, Rest frame vacuum of the Proca field in the de Sitter expanding universe, Eur. Phys. J. C, Vol. 80, No. 6, 535, (2020). https://doi.org/10.1140/epjc/s10052-020-8117-1 IF = 4.59 AIS = 1.165 Q2
7.	Cotaescu, II, Rest frame vacua of massive Klein-Gordon fields on spatially flat FLRW spacetimes, Eur. Phys. J. C, Vol. 80, No. 7, 621, (2020). https://doi.org/10.1140/epjc/s10052-020-8170-9 IF = 4.59 AIS = 1.165 Q2
8.	Baloi, MA; Popescu, D; Crucean, C, Total probability and number of fermion production in external electric field and magnetic field in de Sitter universe, Nucl. Phys. B, Vol. 956, 115032, (2020). https://doi.org/10.1016/j.nuclphysb.2020.115032 IF = 2.759 AIS = 0.86 Q2
9.	Ambrus, VE, Helical massive fermions under rotation, J. High Energy Phys., Vol. , No. 8, 16, (2020). https://doi.org/10.1007/JHEP08(2020)016 IF = 5.81 AIS = 1.017 Q1
10.	Busuioc, S; Kusumaatmaja, H; Ambrus, VE, Axisymmetric flows on the torus geometry, J. Fluid Mech., Vol. 901, A9 (2020). https://doi.org/10.1017/jfm.2020.440 IF = 3.627 AIS = 1.052 Q1
11.	Ambrus, VE; Sharipov, F; Sofonea, V, Comparison of the Shakhov and ellipsoidal models for the Boltzmann equation and DSMC for ab initio-based particle interactions, Comput. Fluids, Vol. 211, 104637, (2020). https://doi.org/10.1016/j.compfluid.2020.104637 IF = 3.013 AIS = 0.956 Q2
12.	Cotaescu, II, Time evolution of the free Dirac field in spatially flat FLRW space-times, Int. J. Mod. Phys. A, Vol. 35, No. 32, 2030019, (2020). https://doi.org/10.1142/S0217751X20300197 IF = 1.381 AIS = 0.356 Q4
13.	Iacob, F, On the geometric quantization of the ro-vibrational motion of homonuclear diatomic molecules, Phys. Lett. A, Vol. 384, No. 35, 126888, (2020). https://doi.org/10.1016/j.physleta.2020.126888 IF = 2.654 AIS = 0.486 Q2
	Q1 = 3 Q2 = 6 Q3 = 1 Q4 = 3 total = 13

Year: 2019

1.	Cotaescu, II; Sporea, CA, Scattering of Dirac fermions by spherical massive bodies, Eur. Phys. J. C, Vol. 79, No. 1, 15, (2019). https://doi.org/10.1140/epjc/s10052-018-6525-2 IF = 4.389 AIS = 1.153 Q1
2.	Cotaescu, II, Propagators of the Dirac fermions on spatially flat FLRW space-times, Int. J. Mod. Phys. A, Vol. 34, No. 5, 1950024, (2019).

	https://doi.org/10.1142/S0217751X19500246 IF = 1.486 AIS = 0.368 Q3
3.	Sporea, CA, Fermion scattering by a class of Bardeen black holes, Chin. Phys. C, Vol. 43, No. 3, 35104, (2019). https://doi.org/10.1088/1674-1137/43/3/035104 IF = 2.463 AIS = 0.764 Q2
4.	Busuioc, S; Ambrus, VE, Lattice Boltzmann models based on the vielbein formalism for the simulation of flows in curvilinear geometries, Phys. Rev. E, Vol. 99, No. 3, 33304, (2019). https://doi.org/10.1103/PhysRevE.99.033304 IF = 2.296 AIS = 0.732 Q2
5.	Cotaescu, II, Aharonov-Bohm rings in de Sitter expanding universe, Gen. Relativ. Gravit., Vol. 51, No. 6, 70, (2019). https://doi.org/10.1007/s10714-019-2553-y IF = 2.03 AIS = 0.494 Q3
6.	Crucean, C, Production of Z bosons and neutrinos in early universe, Eur. Phys. J. C, Vol. 79, No. 6, 483, (2019). https://doi.org/10.1140/epjc/s10052-019-6988-9 IF = 4.389 AIS = 1.153 Q1
7.	Cotaescu, II, Collective classical motion on hyperbolic spacetimes of any dimensions, Mod. Phys. Lett. A, Vol. 34, No. 21, 1950165, (2019). https://doi.org/10.1142/S0217732319501657 IF = 1.391 AIS = 0.297 Q3
8.	Baltateanu, DM, The Effect of the Asymmetry in the Transport through a Graphene-Based Quantum Structure in Uniform Electric Field, Acta Phys. Pol. A, Vol. 136, No. 1, 55-61 (2019). https://doi.org/10.12693/APhysPolA.136.55 IF = 0.579 AIS = 0.09 Q4
9.	Cotaescu, II; Cotaescu, I, Integral representation of the scalar propagators on the de Sitter expanding universe, Eur. Phys. J. C, Vol. 79, No. 8, 671, (2019). https://doi.org/10.1140/epjc/s10052-019-7180-y IF = 4.389 AIS = 1.153 Q1
10.	Cotaescu, II, Rest frame vacuum of the Dirac field on spatially flat FLRW spacetimes, Eur. Phys. J. C, Vol. 79, No. 8, 696, (2019). https://doi.org/10.1140/epjc/s10052-019-7200-y IF = 4.389 AIS = 1.153 Q1
11.	Negro, G; Busuioc, S; Ambrus, VE; et al., Comparison between isothermal collision-streaming and finite-difference lattice Boltzmann models, Int. J. Mod. Phys. C, Vol. 30, No. 10, 1941005, (2019). https://doi.org/10.1142/S0129183119410055 IF = 1.228 AIS = 0.218 Q3
12.	Ambrus, VE; Busuioc, S; Wagner, AJ; et al., Multicomponent flow on curved surfaces: A vielbein lattice Boltzmann approach, Phys. Rev. E, Vol. 100, No. 6, 63306, (2019). https://doi.org/10.1103/PhysRevE.100.063306 IF = 2.296 AIS = 0.732 Q2

13.	Sporea, CA, Quasibound states of the Dirac field in Schwarzschild and Reissner-Nordstrom black hole backgrounds, Mod. Phys. Lett. A, Vol. 34, No. 39, 1950323, (2019). https://doi.org/10.1142/S0217732319503231 IF = 1.391 AIS = 0.297 Q3
	Q1 = 4 Q2 = 3 Q3 = 5 Q4 = 1 total = 13

Year: 2018

1.	Cotaescu, II, de Sitter relativity in static charts, Eur. Phys. J. C, Vol. 78, No. 2, 95, (2018). https://doi.org/10.1140/epjc/s10052-018-5582-x IF = 4.843 AIS = 1.295 Q1
2.	Cotaescu, II, Covariant fields on anti-de Sitter spacetimes, Mod. Phys. Lett. A, Vol. 33, No. 4, 1850026, (2018). https://doi.org/10.1142/S0217732318500268 IF = 1.367 AIS = 0.299 Q3
3.	Sofonea, V; Biciusca, T; Busuioc, S; et al., Corner-transport-upwind lattice Boltzmann model for bubble cavitation, Phys. Rev. E, Vol. 97, No. 2, 23309, (2018). https://doi.org/10.1103/PhysRevE.97.023309 IF = 2.353 AIS = 0.77 Q2
4.	Ambrus, VE, Transport coefficients in ultrarelativistic kinetic theory, Phys. Rev. C, Vol. 97, No. 2, 24914, (2018). https://doi.org/10.1103/PhysRevC.97.024914 IF = 3.132 AIS = 0.707 Q2
5.	Cotaescu, II, Canonical quantization of the covariant fields on de Sitter space-times, Int. J. Mod. Phys. A, Vol. 33, No. 8, 1830007, (2018). https://doi.org/10.1142/S0217751X18300077 IF = 1.153 AIS = 0.409 Q4
6.	Sporea, CA; Borowiec, A; Wojnar, A, Galaxy rotation curves via conformal factors, Eur. Phys. J. C, Vol. 78, No. 4, 308, (2018). https://doi.org/10.1140/epjc/s10052-018-5792-2 IF = 4.843 AIS = 1.295 Q1
7.	Baloi, MA; Crucean, C; Popescu, D, Scalar pair production in a magnetic field in de Sitter universe, Eur. Phys. J. C, Vol. 78, No. 5, 398, (2018). https://doi.org/10.1140/epjc/s10052-018-5890-1 IF = 4.843 AIS = 1.295 Q1
8.	Ambrus, VE; Kent, C; Winstanley, E, Analysis of scalar and fermion quantum field theory on anti-de Sitter spacetime, Int. J. Mod. Phys. D, Vol. 27, No. 11, 1843014, (2018). https://doi.org/10.1142/S0218271818430149 IF = 2.004 AIS = 0.581 Q3
9.	Ambrus, VE; Blaga, R, High-order quadrature-based lattice Boltzmann models for the flow of ultrarelativistic rarefied gases, Phys. Rev. C, Vol. 98, No. 3, 35201, (2018).

	https://doi.org/10.1103/PhysRevC.98.035201 IF = 3.132 AIS = 0.707 Q2
10.	Wojnar, A; Sporea, CA; Borowiec, A, A Simple Model for Explaining Galaxy Rotation Curves, Galaxies, Vol. 6, No. 3, 70, (2018). https://doi.org/10.3390/galaxies6030070 IF = n/a AIS = 0.490 Q4
11.	Cotaescu, II, Integral representation of the Feynman propagators of the Dirac fermions on the de Sitter expanding universe, Eur. Phys. J. C, Vol. 78, No. 9, 769, (2018). https://doi.org/10.1140/epjc/s10052-018-6258-2 IF = 4.843 AIS = 1.295 Q1
12.	Cotaescu, II, de Sitter geodesics in stereographic charts, Mod. Phys. Lett. A, Vol. 33, No. 32, 1875002, (2018). https://doi.org/10.1142/S0217732318750020 IF = 1.367 AIS = 0.299 Q3
13.	Ambrus, VE; Sofonea, V, Half-range lattice Boltzmann models for the simulation of Couette flow using the Shakhov collision term, Phys. Rev. E, Vol. 98, No. 6, 63311, (2018). https://doi.org/10.1103/PhysRevE.98.063311 IF = 2.353 AIS = 0.77 Q2
	Q1 = 4 Q2 = 4 Q3 = 3 Q4 = 1 total = 13

Year: 2017

1.	Crucean, C; Baloi, MA, Reply to Comment on 'Fermion production in a magnetic field in a de Sitter universe', Phys. Rev. D, Vol. 95, No. 4, 48502, (2017). https://doi.org/10.1103/PhysRevD.95.048502 IF = 4.394 AIS = 1.038 Q1
2.	Cotaescu, II, Physical meaning of the conserved quantities on anti-de Sitter geodesics, Phys. Rev. D, Vol. 95, No. 10, 104051, (2017). https://doi.org/10.1103/PhysRevD.95.104051 IF = 4.394 AIS = 1.038 Q1
3.	Ambrus, VE; Winstanley, E, Thermal expectation values of fermions on anti-de Sitter space-time, Class. Quantum Gravity, Vol. 34, No. 14, 145010, (2017). https://doi.org/10.1088/1361-6382/aa7863 IF = 3.283 AIS = 1.146 Q2
4.	Cotaescu, II, Rest frames and relativistic effects on de Sitter spacetimes, Eur. Phys. J. C, Vol. 77, No. 7, 485, (2017). https://doi.org/10.1140/epjc/s10052-017-5032-1 IF = 5.172 AIS = 1.48 Q1
5.	Ambrus, VE, Quantum non-equilibrium effects in rigidly-rotating thermal states, Phys. Lett. B, Vol. 771, 151-156 (2017). https://doi.org/10.1016/j.physletb.2017.05.038 IF = 4.254 AIS = 1.346 Q1

6.	Cotaescu, II, Anti-de Sitter relativity, Phys. Rev. D, Vol. 96, No. 4, 44046, (2017). https://doi.org/10.1103/PhysRevD.96.044046 IF = 4.394 AIS = 1.038 Q1
7.	Sporea, CA, Scattering of massless fermions by Schwarzschild and Reissner-Nordstrom black holes, Chin. Phys. C, Vol. 41, No. 12, 123101, (2017). https://doi.org/10.1088/1674-1137/41/12/123101 IF = 3.298 AIS = 1.172 Q2
8.	Baloi, MA; Crucean, C, Fermion production by a dependent of time electric field in de Sitter universe, Int. J. Mod. Phys. A, Vol. 32, No. 36, 1750208, (2017). https://doi.org/10.1142/S0217751X17502086 IF = 1.291 AIS = 0.451 Q4
9.	Cotaescu, II, de Sitter geodesics, Mod. Phys. Lett. A, Vol. 32, No. 40, 1750223, (2017). https://doi.org/10.1142/S0217732317502236 IF = 1.308 AIS = 0.328 Q3
	Q1 = 5 Q2 = 2 Q3 = 1 Q4 = 0 total = 9

Year: 2016

1.	Sporea, CA; Vulcanov, DN, Using Maple Plus Grtensorii In Teaching Basics Of General Relativity And Cosmology, Rom. Rep. Phys., Vol. 68, No. 1, 29-40 (2016). https://doi.org/nan IF = 1.467 AIS = 0.242 Q2
2.	Cotaescu, II; Baltateanu, DM; Cotaescu, I, Relativistic persistent currents in ideal Aharonov-Bohm rings, Int. J. Mod. Phys. B, Vol. 30, No. 1, 1550245, (2016). https://doi.org/10.1142/S0217979215502458 IF = 0.736 AIS = 0.186 Q4
3.	Baltateanu, DM, The Transport Of The Dirac Fermions Through Certain One-Dimensional Quantum Wire Structures, Rom. J. Phys., Vol. 61, 7-81224-1234 (2016). https://doi.org/nan IF = 1.758 AIS = 0.243 Q2
4.	Crucean, C; Baloi, MA, Fermion production in a magnetic field in a de Sitter universe, Phys. Rev. D, Vol. 93, No. 4, 44070, (2016). https://doi.org/10.1103/PhysRevD.93.044070 IF = 4.557 AIS = 1.112 Q1
5.	Cotaescu, II; Crucean, C; Sporea, CA, Partial wave analysis of the Dirac fermions scattered from Schwarzschild black holes, Eur. Phys. J. C, Vol. 76, No. 3, 102, (2016). https://doi.org/10.1140/epjc/s10052-016-3936-9 IF = 5.297 AIS = 1.673 Q1
6.	Crucean, C; Baloi, MA, Perturbative approach to the problem of particle production in electric field on de Sitter universe, Mod. Phys. Lett. A, Vol. 31, No. 13, 1650082, (2016).

	https://doi.org/10.1142/S0217732316500826 IF = 1.165 AIS = 0.319 Q3
7.	Sporea, CA; Borowiec, A, Low energy greybody factors for fermions emitted by a Schwarzschild-de Sitter black hole, Int. J. Mod. Phys. D, Vol. 25, No. 4, 1650043, (2016). https://doi.org/10.1142/S0218271816500437 IF = 2.476 AIS = 0.604 Q2
8.	Ambrus, VE; Winstanley, E, Rotating fermions inside a cylindrical boundary, Phys. Rev. D, Vol. 93, No. 10, 104014, (2016). https://doi.org/10.1103/PhysRevD.93.104014 IF = 4.557 AIS = 1.112 Q1
9.	Baloi, MA, Annihilation of the scalar pair into a photon in a de Sitter universe, Int. J. Mod. Phys. A, Vol. 31, 14-151650081, (2016). https://doi.org/10.1142/S0217751X16500810 IF = 1.597 AIS = 0.502 Q3
10.	Ambrus, VE; Sofonea, V, Lattice Boltzmann models based on half-range Gauss-Hermite quadratures, J. Comput. Phys., Vol. 316, 760-788 (2016). https://doi.org/10.1016/j.jcp.2016.04.010 IF = 2.746 AIS = 1.337 Q1
11.	Cotaescu, II; Crucean, C; Sporea, CA, Partial wave analysis of the Dirac fermions scattered from Reissner-Nordstrom charged black holes, Eur. Phys. J. C, Vol. 76, No. 7, 413, (2016). https://doi.org/10.1140/epjc/s10052-016-4260-0 IF = 5.297 AIS = 1.673 Q1
12.	Blaga, R; Busuioc, S, Quantum Larmor radiation in de Sitter spacetime, Eur. Phys. J. C, Vol. 76, No. 9, 1-10500, (2016). https://doi.org/10.1140/epjc/s10052-016-4341-0 IF = 5.297 AIS = 1.673 Q1
13.	Cotaescu, II; Baltateanu, DMS; Cotaescu, II, Relativistic currents on ideal Aharonov-Bohm cylinders, Int. J. Mod. Phys. B, Vol. 30, No. 26, 1650190, (2016). https://doi.org/10.1142/S0217979216501903 IF = 0.736 AIS = 0.186 Q4
14.	Ambrus, VE; Cotaescu, II, Maxwell-Juttner distribution for rigidly rotating flows in spherically symmetric spacetimes using the tetrad formalism, Phys. Rev. D, Vol. 94, No. 8, 85022, (2016). https://doi.org/10.1103/PhysRevD.94.085022 IF = 4.557 AIS = 1.112 Q1
15.	Ambrus, VE; Sofonea, V, Application of mixed quadrature lattice Boltzmann models for the simulation of Poiseuille flow at non-negligible values of the Knudsen number, J. Comput. Sci., Vol. 17, 403-417 (2016). https://doi.org/10.1016/j.jocs.2016.03.016 IF = 1.748 AIS = 0.552 Q2
	Q1 = 7 Q2 = 4 Q3 = 2 Q4 = 2 total = 15

Year: 2015

1.	Cotaescu, II, Acceleration in de Sitter spacetimes, EPL, Vol. 109, No. 4, 40002, (2015). https://doi.org/10.1209/0295-5075/109/40002 IF = 1.963 AIS = 0.824 Q1
2.	Blaga, R, Radiation of inertial scalar particles in the de Sitter universe, Mod. Phys. Lett. A, Vol. 30, No. 11, 1550062, (2015). https://doi.org/10.1142/S0217732315500625 IF = 1.116 AIS = 0.314 Q3
3.	Crucean, C; Baloi, MA, Interaction between Maxwell field and charged scalar field in de Sitter universe, Int. J. Mod. Phys. A, Vol. 30, No. 16, 1550088, (2015). https://doi.org/10.1142/S0217751X15500888 IF = 1.799 AIS = 0.478 Q3
4.	Sporea, CA, New modes for massive Dirac field in higher-dimensional black holes, Mod. Phys. Lett. A, Vol. 30, No. 28, 1550145, (2015). https://doi.org/10.1142/S021773231550145X IF = 1.116 AIS = 0.314 Q3
5.	Ambrus, VE; Winstanley, E, Renormalised fermion vacuum expectation values on anti-de Sitter space-time, Phys. Lett. B, Vol. 749, 597-602 (2015). https://doi.org/10.1016/j.physletb.2015.08.045 IF = 4.787 AIS = 1.489 Q1
6.	Blaga, R, One-photon pair production on the expanding de Sitter spacetime, Phys. Rev. D, Vol. 92, No. 8, 84054, (2015). https://doi.org/10.1103/PhysRevD.92.084054 IF = 4.506 AIS = 1.105 Q2
7.	Cotaescu, II; Baltateanu, DM, Isometry generators in momentum representation of the Dirac theory on the de Sitter spacetime, Mod. Phys. Lett. A, Vol. 30, No. 38, 1550208, (2015). https://doi.org/10.1142/S0217732315502089 IF = 1.116 AIS = 0.314 Q3
8.	Iacob, F; Lute, M, Exact solution to the Schrodinger's equation with pseudo-Gaussian potential, J. Math. Phys., Vol. 56, No. 12, 121501, (2015). https://doi.org/10.1063/1.4936309 IF = 1.234 AIS = 0.629 Q2
	Q1 = 2 Q2 = 2 Q3 = 4 Q4 = 0 total = 7