

## به نام خدا



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### افتخارات:

- پژوهشگر برتر دانشگاه مراغه در سال ۱۴۰۱.
- پژوهشگر برتر مرکز تحقیقات نجوم و اختر فیزیک مراغه در سال ۱۴۰۱.
- برگریده جشنواره جوان خوارزمی ۱۳۹۸.
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- پژوهشگر برتر مرکز تحقیقات نجوم و اختر فیزیک مراغه در سال ۱۳۹۵.

### دادهای علمی:

- Physical Review D
- Astrophysical Journal

- Monthly Notices of the Royal Astronomical Society
- Classical and Quantum Gravity
- Quantum Information Processing
- Physics Letters A
- Physics of the Dark Universe
- European Physical Journal C
- ...

## مقالات

- 1) S. Aghababaei and H. Moradpour: *Generalized uncertainty principle and quantum non-locality*, Quantum. Inf. Process 22, 173 (2023).
- 2) V. B. Bezerra, Luis C. N. Santos, Franciele M. da Silva and H. Moradpour: *On black holes surrounded by a fluid of strings in Rastall gravity*, Gen. Relativ. Gravit. 54, 109 (2022).
- 3) H. Moradpour, A. H. Ziaie, N. Sadeghnezhad and A. Ghasemi: *Generalized uncertainty principle and burning stars*, Front. Astron. Space Sci. 9, 936352 (2022).
- 4) H. Shabani, A. H. Ziaie and H. Moradpour: *Einstein static universe and its stability in generalized Rastall gravity*, Annals of Physics. 444, 169058 (2022).
- 5) S. Rani, A. Jawad, H. Moradpour and A. Tanveer: *Tsallis entropy inspires geometric thermodynamics of specific black hole*, Eur. Phys. J. C 82, 713 (2022).
- 6) H. Moradpour, M. Javaherian, E. Namvar and A. H. Ziaie: *Gamow Temperature in Tsallis and Kaniadakis Statistics*, Entropy 24, 797 (2022).
- 7) A. H. Ziaie, H. Moradpour, V. B. Bezerra and A. Jawad: *On Some Applications of the Sagnac Effect*, Eur. Phys. J. Plus 137, 628 (2022).
- 8) B. Afshar, N. Riazi and H. Moradpour: *A note on inflation in dRGT massive gravity*, Eur. Phys. J. C 82, 430 (2022).
- 9) H. Shabani, H. Moradpour and A. H. Ziaie: *A dynamical system representation of generalized Rastall gravity*, Phys. Dark. Univ. 36, 101047 (2022).
- 10) H. Moradpour, A. H. Ziaie, Jarley P. Lobo, J. P. Morais Graca, U. K. Sharma and A. Sayahian Jahromi: *The third law of thermodynamics, non-extensivity and energy definition in black hole physics*, Mod. Phys. Lett. A 37, 2250076 (2022).
- 11) H. Moradpour, S. Aghababaei, C. Corda and N. Sadeghnezhad:  *$H_0$  tension and uncertainty principles*, Phys. Scr. 97, 055008 (2022).
- 12) S. Aghababaei, H. Moradpour and H. Shabani: *Quantum gravity and the square of Bell operators*, Quantum. Inf. Process 21, 57 (2022).

- 13) U. K. Sharma, V. C. Dubey, A. H. Ziaie and H. Moradpour: *Kaniadakis Holographic Dark Energy in non-flat Universe*, Int. J. Mod. Phys. D 31, 2250013 (2022).
- 14) A. H. Ziaie, H. Moradpour and M. Mohammadi Sabet: *Non-singular collapse scenario from matter-curvature coupling*, Eur. Phys. J. Plus 136, 1085 (2021).
- 15) M. Mohammadi Sabet, H. Moradpour, M. Bahadoran and A. H. Ziaie: *Minimal length implications on the Hartree-Fock theory*, Phys. Scr. 96, 125016 (2021).
- 16) F. Feleppa, H. Moradpour, C. Corda and S. Aghababaei: *Constraining the generalized uncertainty principle with neutron interferometry*, EPL 135, 40003 (2021).
- 17) S. Aghababaei, H. Moradpour and Elias C. Vagenas: *Hubble tension bounds the GUP and EUP parameters*, Eur. Phys. J. Plus 136, 997 (2021).
- 18) Iarley P. Lobo, Luis C. N. Santos, V. B. Bezerra, J. P. Morais Graca and H. Moradpour: *The extended phase space thermodynamics of Planck-scale-corrected Reissner-Nordström-anti-de Sitter black hole*, Nucl. Phys. B 972, 115568 (2021).
- 19) H. Moradpour, C. Corda and A. H. Ziaie: *Tsallis uncertainty*, EPL 134, 20003 (2021).
- 20) H. Moradpour, H. Shabani, A. H. Ziaie and U. K. Sharma: *Non-minimal coupling inspires the Dirac cosmological model*, Eur. Phys. J. Plus 136, 731 (2021).
- 21) M. Senay, M. Mohammadi Sabet and H. Moradpour: *Heat capacity of Holographic screen inspires MOND theory*, Phys. Scr. 96, 075001 (2021).
- 22) S. Aghababaei, H. Moradpour, G. Rezaei and S. Khorshidian: *Effects of minimal length on Berry phase and spin-orbit interactions*, Phys. Scr. 96, 055303 (2021).
- 23) M. Kord Zangeneh, F. S. N. Lobo and H. Moradpour: *Evolving traversable wormholes satisfying the energy conditions in the presence of pole dark energy*, Phys. Dark. Univ. 31, 100779 (2021).
- 24) H. Moradpour, S. Aghababaei and A. H. Ziaie: *A Note on Effects of Generalized and Extended Uncertainty Principles on Jordanian Gas*, Symmetry 13, 213 (2021).
- 25) A. H. Ziaie, H. Moradpour and H. Shabani: *Structure Formation in Generalized Rastall Gravity*, Eur. Phys. J. Plus 135, 916 (2020).
- 26) S. Ghaffari, A. A. Mamon, H. Moradpour and A. H. Ziaie: *Holographic dark energy in Rastall theory*, Mod. Phys. Lett. A 35, 2050276 (2020).
- 27) H. Moradpour, A. H. Ziaie and M. Kord Zangeneh: *Generalized entropies and corresponding holographic dark energy models*, Eur. Phys. J. C 80, 732 (2020).

- 28) I. P. Lobo, M. G. Richarte, J. P. Morais Graca and H. Moradpour: *Thin-shell wormholes in Rastall gravity*, Eur. Phys. J. Plus 135, 550 (2020).
- 29) H. Moradpour and M. Valipour: Generalized Misner-Sharp energy in the generalized Rastall theory, Accepted by Can. J. Phys. (2020).
- 30) M. Abdollahi Zadeh, A. Sheykhi, K. Bamba and H. Moradpour: *Effects of anisotropy on the sign-changeable interacting Tsallis holographic dark energy*, Mod. Phys. Lett. A 33, 2050053 (2020).
- 31) S. Ghaffari, A. H. Ziaeи, V. B. Bezerra and H. Moradpour: *Inflation in the Renyi cosmology*, Mod. Phys. Lett. A 35, 1950341 (2020).
- 32) H. Moradpour, C. Corda, A. H. Ziaeи and S. Ghaffari: *The extended uncertainty principle inspires the Renyi entropy*, EPL 127, 60006 (2019).
- 33) S. Ghaffari, H. Moradpour, A. H. Ziaeи, F. Asgharian, F. Feleppa and M. Tavayef: *Black holes Thermodynamics in Sharma-Mittal generalized entropy formalism*, Gen. Relativ. Gravit. 51, 93 (2019).
- 34) H. Moradpour, Y. Heydarzade, C. Corda, A. H. Ziaeи and S. Ghaffari: *Black hole solutions and Euler equation in Rastall and generalized Rastall theories of gravity*, Mod. Phys. Lett. A 33, 1950304 (2019).
- 35) H. Moradpour, A. H. Ziaeи, S. Ghaffari and F. Feleppa: *The generalized and extended uncertainty principles and their implications on the Jeans mass*, Mon. Not. Roy. Astron. Soc. 488, L69-L74 (2019).
- 36) H. Moradpour, A. Amiri and A. Sheykhi: *Implications of Maximum Acceleration on Dynamics*, Iran. J. Sci. Technol. Trans. Sci. 43, 1295 (2019).
- 37) A. H. Ziaeи, H. Moradpour and S. Ghaffari: *Gravitational collapse in Rastall gravity*, Phys. Lett. B 793, 276 (2019).
- 38) M. Kord Zangeneh, H. Moradpour and N. Sadeghnezhad: *A note on cosmological features of modified Newtonian potentials*, Mod. Phys. Lett. A 34, 1950168 (2019).
- 39) E. Benedetto, F. Feleppa, I. Licata, H. Moradpour and C. Corda: *On the general relativistic framework of the Sagnac effect*, Eur. Phys. J. C 79, 187 (2019).
- 40) H. Moradpour, I. Licata, C. Corda and I. G. Salako: *4-index theory of gravity and its relation with the violation of the energy-momentum conservation law*, Mod. Phys. Lett. A 34, 1950096 (2019).
- 41) M. Abdollahi Zadeh, A. Sheykhi and H. Moradpour: *Tsallis Ageographic Dark Energy Model*, Mod. Phys. Lett. A 34, 1950086 (2019).

- 42) A. Sheykhi, S. Ghaffari and H. Moradpour: *Ghost Dark Energy in the Deformed Horava-Lifshitz Cosmology*, Int. J. Mod. Phys. D 28, 1950080 (2019).
- 43) M. Younas, A. Jawad, S. Qammar, H. Moradpour and S. Rani: *Cosmological Implications of the Generalized Entropy Base Holographic Dark Energy Models in Dynamical Chern-Simons Modified Gravity*, AHEP. 1287932 (2019).
- 44) S. Ghaffari, H. Moradpour, I. P. Lobo, J. P. Morais Graca and V. B. Bezerra: *Tsallis holographic dark energy in the Brane Cosmology*, Phys. Dark. Univ. 23, 100246 (2019).
- 45) M. Abdollahizadeh, A. Sheykhi and H. Moradpour: *Thermal Stability of Tsallis Holographic Dark Energy in Non-falt Universe*, Gen. Relativ. Gravit. 51, 12 (2019).
- 46) H. Moradpour, M. Bahadoran, P. Youplao, P. Yupapin and A. Ghasemi: *One and two spin-1/2 particle systems under the Lorentz transformations*, Journal of King Saud University – Science 30, 560 (2018).
- 47) K. Bamba, A. Jawad, S. Rafique and H. Moradpour: *Thermodynamics in Rastall Gravity with Entropy Corrections*, Eur. Phys. J. C 78, 986 (2018).
- 48) M. Abdollahizadeh, A. Sheykhi, H. Moradpour and K. Bamba: *Note on Tsallis Holographic Dark Energy*, Eur. Phys. J. C 78, 940 (2018).
- 49) A. Jawad and H. Moradpour: *Non-minimal Torsion-matter Coupling and Wormhole Solutions*, Int. Jour. Geom. Meth. Mod. Phys. 15, 1850210 (2018).
- 50) H. Moradpour, S. A. Moosavi, I. P. Lobo, J. P. Morais Graca, A. Jawad and I. G. Salako: *A thermodynamic approach to holographic dark energy and the Renyi entropy*, Eur. Phys. J. C 78, 829 (2018).
- 51) J. P. Morais Graca, Iarley P. Lobo, V. B. Bezerra and H. Moradpour: *Effects of a string cloud on the criticality and efficiency of AdS black holes as heat engines*, Eur. Phys. J. C 78, 823 (2018).
- 52) S. Ghaffari, H. Moradpour, J. P. Morais Graca, I. P. Lobo and V. B. Bezerra: *Tsallis holographic dark energy in the Brane cosmology*, Eur. Phys. J. C 78, 706 (2018).
- 53) H. Moradpour, J. P. Morais Graça, I. P. Lobo and I. G. Salako: *Energy Definition and Dark Energy: A Thermodynamic Analysis*, AHEP, 7124730 (2018) [**Featured Article**].
- 54) A. Jawad, T. Nawaz, S. Rani, R. Manzoor and H. Moradpour: *Role of  $f(T, \theta)$  gravity on dynamical instability of collapsing star*, Phys. Dark. Univ. 21, 70 (2018).
- 55) H. Moradpour, A. Sheykhi, C. Corda and I. G. Salako: *Implications of the generalized entropy formalisms on the Newtonian gravity and dynamics*, Phys. Lett. B 783, 82 (2018).

- 56) M. Tavayef, A. Sheykhi, K. Bamba and H. Moradpour: *Tsallis holographic dark energy*, Phys. Lett. B 781, 195 (2018).
- 57) A. Sayahian Jahromi, S. A. Moosavi, H. Moradpour, J. P. Morais Graça, I. P. Lobo, I. G. Salako and A. Jawad: *Generalized entropy formalism and a new holographic dark energy model*, Phys. Lett. B 780, 21 (2018).
- 58) A. Sheykhi, M. Tavayef and H. Moradpour: *Revisiting Holographic Dark Energy in Cyclic Cosmology*, Can. J. Phys. 96, 1034 (2018).
- 59) I. P. Lobo, H. Moradpour, J. P. Morais Graça and I. G. Salako: *Thermodynamics of Black Holes in Rastall Gravity*, Int. J. Mod. Phys. D 27, 1850069 (2018).
- 60) I. G. Salako, A. Jawad and H. Moradpour: *Anisotropic compact stars in non-conservative theory of gravity*, Int. Jour. Geom. Meth. Mod. Phys. 15, 1850093 (2018).
- 61) F. Darabi, H. Moradpour, I. Licata, Y. Heydarzade and C. Corda: *Einstein and Rastall Theories of Gravitation in Comparison*, Eur. Phys. J. C 78, 25 (2018).
- 62) I. G. Salako, A. Jawad and H. Moradpour: *Cosmological Implications of Scalar Field Dark Energy Models in  $f(T, T)$  gravity*, Int. Jour. Geom. Meth. Mod. Phys. 15, 1850063 (2018).
- 63) A. Sayahian Jahromi and H. Moradpour: *Static traversable wormholes in Lyra manifold*, Int. J. Mod. Phys. D 27, 1850024 (2018).
- 64) H. Moradpour, A. Bonilla, E. M. C. Abreu and J. A. Neto: *Accelerated cosmos in a nonextensive setup*, Phys. Rev. D 96, 123504 (2017).
- 65) R. C. Nunes, H. Moradpour, E. M. Barboza Jr, E. M. C. Abreu and J. A. Neto: *Entropic gravity from noncommutative black holes*, Int. Jour. Geom. Meth. Mod. Phys. 15, 1850004 (2018).
- 66) H. Moradpour, Y. Heydarzade, F. Darabi and I. G. Salako: *A generalization to the Rastall theory and cosmic eras*, Eur. Phys. J. C 77, 259 (2017).
- 67) M. G. Richarte, I. G. Salako, J. P. Morais Graça, H. Moradpour and A. Övgün: *Relativistic Bose-Einstein condensates thin-shell wormholes*, Phys. Rev. D 96, 084022 (2017).
- 68) M. Abdollahi Zadeh, A. Sheykhi and H. Moradpour: *Holographic dark energy with the sign-changeable interaction term*, Int. J. Mod. Phys. D 26, 1750080 (2017).
- 69) M. Bahadoran, H. Moradpour, J. Ali and R. R. Poznanski: *A survey of the new proposal about the photon momentum*, Optik. 139, 6 (2017).

- 70) H. Moradpour, R. C. Nunes, E. M. C. Abreu and J. A. Neto: *A note on the relations between thermodynamics, energy definitions and Friedmann equations*, Mod. Phys. Lett. A 32, 1750078 (2017).
- 71) Y. Heydarzade, H. Moradpour and F. Darabi: *Black Hole Solutions in Rastall Theory*, Can. J. Phys. 95, 1253 (2017).
- 72) H. Moradpour, N. Sadeghnezhad and S. H. Hendi: *Traversable asymptotically flat wormholes in Rastall gravity*, Can. J. Phys. 95, 1257 (2017).
- 73) H. Moradpour, N. Sadeghnezhad, S. Ghaffari and A. Jahan: *Thermodynamic Analysis of Gravitational Field Equations in Lyra Manifold*, AHEP, 9687976 (2017).
- 74) M. Abdollahi Zadeh, A. Sheykhi and H. Moradpour: *Ghost Dark Energy with Sign-changeable Interaction Term*, Int. J. Theor. Phys. 56, 3477 (2017).
- 75) I. Licata, H. Moradpour and C. Corda: *The commutator algebra of covariant derivative as general framework for extended gravity. The Rastall theory case and the role of the torsion*, Int. Jour. Geom. Meth. Mod. Phys. 14, 1730003 (2017).
- 76) H. Moradpour, A. Abri and H. Ebadi: *Thermodynamic behavior and stability of Polytropic gas*, Int. J. Mod. Phys. D 25, 1650014 (2016).
- 77) H. Moradpour and M. T. Mohammadi Sabet: *Thermodynamic descriptions of Polytropic gas and its viscous type as the dark energy candidates*, Can. J. Phys. 94, 334 (2016).
- 78) H. Moradpour: *Thermodynamics of flat FLRW universe in Rastall theory*, Phys. Lett. B 757, 187 (2016).
- 79) H. Moradpour and R. Dehghani: *Thermodynamical Study of FRW Universe in Quasi-Topological Theory*, AHEP. 2016, 7248520 (2016).
- 80) H. Moradpour and A. Montakhab: *Relativistic three-partite non-locality*, Int. J. Quant. Inf. 14, 1650008 (2016).
- 81) H. Moradpour: *Implications, Consequences and Interpretations of Generalized Entropy in the Cosmological Setups*, Int. J. Theo. Phys. 55, 4176 (2016).
- 82) H. Moradpour and I. G. Salako: *Thermodynamic Analysis of the Static Spherically Symmetric Field Equations in Rastall Theory*, AHEP. 2016, 349279 (2016).
- 83) H. Moradpour and S. Nasirimoghadam: *Thermodynamic motivations of spherically symmetric static metrics*, Rom. Journ. Phys. 61, 9 (2016).
- 84) H. Moradpour and N. Riazi: *Dynamic conformal spherically symmetric solutions in an accelerated background*, Romanian Reports in Physics, 68, 4 (2016).

- 85) H. Moradpour and N. Riazi: *Thermodynamic Equilibrium and Rise of Complexity in an Accelerated Universe*, Int. J. Theor. Phys. 55, 268 (2015).
- 86) H. Moradpour and N. Riazi: *Spherically symmetric solutions in a FRW background*, Mod. Phys. Lett. A 30, 1550042 (2015).
- 87) M. Honarvaryan, A. Sheykhi and H. Moradpour: *Thermodynamical description of the ghost dark energy model*, Int. J. Mod. Phys. D 24, 1550048 (2015).
- 88) H. Ebadi and H. Moradpour: *Thermodynamical Description of Modified Generalized Chaplygin Gas Model of Dark Energy*, Int. J. Theor. Phys. 55, 1612 (2015).
- 89) H. Ebadi and H. Moradpour: *Thermodynamics of universe with a varying dark energy component*, Int. J. Mod. Phys. D 24, 1550098 (2015).
- 90) Y. Heydarzade, N. Riazi and H. Moradpour: *Phantom Wormhole Solutions in a Generic Cosmological Constant Background*, Can. J. Phys. 93, 1523 (2015).
- 91) H. Moradpour, M. T. Mohammadi Sabet and A. Ghasemi: *Thermodynamic analysis of universes with the initial and final de Sitter eras*, Mod. Phys. Lett. A 30, 1550158 (2015).
- 92) H. Moradpour and A. Sheykhi: *From the Komar Mass and Entropic Force Scenarios to the Einstein Field Equations on the Ads Brane*, Int. J. Theor. Phys. 55, 1145 (2015).
- 93) H. Moradpour, S. Maghool and S. A. Moosavi: *Three-particle Bell-like inequalities under Lorentz transformations*, Quantum. Inf. Process 14, 3913 (2015).
- 94) H. Moradpour, A. Dehghani and M. T. Mohammadi Sabet: *Dynamic black holes in an FRW background: Lemaître transformations*, Mod. Phys. Lett. A 30, 1550207 (2015).
- 95) A. Sheykhi, H. Moradpour, K. Rezazadeh Sarab and B. Wang: *Generalized Second Law of Thermodynamics in Parabolic LTB Inhomogeneous Cosmology*, Commun. Theor. Phys. 64, 597 (2015).
- 96) H. Moradpour, A. Sheykhi, N. Riazi and B. Wang: *Necessity of Dark Energy from Thermodynamic Arguments*, AHEP, 2014, 718583 (2014).
- 97) N. Riazi, H. Moradpour and A. Sheykhi: *Conformally Schwarzschild black holes in an accelerating universe*, Int. J. Mod. Phys. D 5, 1450048 (2014).
- 98) A. Sheykhi, H. Moradpour and N. Riazi: *Lovelock gravity from entropic force*, Gen. Relativ. Gravit. 45, 5, 1033 (2013).
- 99) N. Riazi, H. Moradpoor and A. Amiri: *Physical and Mathematical Properties of Conformally RW Spacetimes*, Prog. Theo. Phys. 126, 6 (2011).

## همایش ها:

۱. مرادپور هومان، ابری، افسانه، عبادی، حسین: بررسی رفتار ترمودینامیکی گاز پلی تروب عنوان مدلی از انرژی تاریک، همایش ملی گرانش و کیهان‌شناسی، دانشگاه شهید بهشتی، دی ماه ۱۳۹۴.
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