

# Hooman Moradpour

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Research Institute for Astronomy and Astrophysics of Maragha (RIAAM), P.O. Box  
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## Personal Information:

- Gender: Male
- Date of birth: 1985/08/14
- Nationality: Iranian
- Marital status: Single

## Education:

- 2010-2014: PhD in Astrophysics and Cosmology, Shiraz University
- 2007-2010: M.Sc. in Solid State Physics, Shiraz University
- 2003-2007: B.S. in Physics, Shiraz University

## Teaching experiences:

- Advanced Quantum Mechanics
- Gravitation and General Relativity
- Particle Physics
- Quantum Mechanics
- Advanced Statistical Mechanics
- Thermodynamics
- Physics of Electricity & Mechanics

## Experience in Scientific Society:

- Member of the editorial board of Journal of High Energy Physics, Gravitation and Cosmology
- Reviewer at the journal of AHEP, GERG, EPJC, IJTP, QINP, Gravitation and Cosmology, and ISTT.

## List of Publications:

- 1) N. Riazi, H. Moradpour and A. Amiri: *Physical and Mathematical Properties of Conformally RW Spacetimes*, Prog. Theo. Phys, 126, 6 (2011).
- 2) A. Sheykhi, H. Moradpour and N. Riazi: *Lovelock gravity from entropic force*, Gen. Relativ. Gravit, 45, 5, 1033 (2013).
- 3) H. Moradpour, A. Sheykhi, N. Riazi and B. Wang: *Necessity of Dark Energy from Thermodynamic Arguments*, AHEP, 2014, 718583 (2014).
- 4) N. Riazi, H. Moradpour and A. Sheykhi: *Conformally Schwarzschild black holes in an accelerating universe*, Int. J. Mod. Phys. D 5, 1450048 (2014).
- 5) N. Riazi, S. Davatolhagh and H. Moradpour: *Evolution of Information and Complexity in an Ever-Expanding Universe*, Iran. J. Astro. Astrophys. 1, 87 (2014).

- 6) H. Moradpour and N. Riazi: *Thermodynamic Equilibrium and Rise of Complexity in an Accelerated Universe*, Int. J. Theor. Phys. 55, 268 (2015).
- 7) H. Moradpour and N. Riazi: *Spherically symmetric solutions in a FRW background*, Mod. Phys. Lett. A 30, 1550042 (2015).
- 8) M. Honarvaryan, A. Sheykhi and H. Moradpour: *Thermodynamical description of the ghostdark energy model*, Int. J. Mod. Phys. D 24, 1550048 (2015).
- 9) H. Ebadi and H. Moradpour: *Thermodynamical Description of Modified Generalized Chaplygin Gas Model of Dark Energy*, Int. J. Theor. Phys. 55, 1612 (2015).
- 10) H. Ebadi and H. Moradpour: *Thermodynamics of universe with a varying dark energy component*, Int. J. Mod. Phys. D 24, 1550098 (2015).
- 11) Y. Heydarzade, N. Riazi and H. Moradpour: *Phantom Wormhole Solutions in a Generic Cosmological Constant Background*, Can. J. Phys. 93, 1523 (2015).
- 12) 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).
- 13) 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).
- 14) H. Moradpour, S. Maghool and S. A. Moosavi: *Three-particle Bell-like inequalities under Lorentz transformations*, Quantum. Inf. Process 14, 3913 (2015).
- 15) 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).
- 16) 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).
- 17) H. Moradpour, A. Abri and H. Ebadi: *Thermodynamic behavior and stability of Polytropic gas*, Int. J. Mod. Phys. D 25, 1650014 (2016).
- 18) 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, 1 (2016).
- 19) H. Moradpour: *Thermodynamics of flat FLRW universe in Rastall theory*, Phys. Lett. B 757, 187 (2016).
- 20) H. Moradpour and R. Dehghani: *Thermodynamical Study of FRW Universe in Quasi-Topological Theory*, AHEP. 2016, 7248520 (2016).
- 21) H. Moradpour and A. Montakhab: *Relativistic three-partite non-locality*, Int. J. Quant. Inf. 14, 1650008 (2016).
- 22) H. Moradpour: *Implications, Consequences and Interpretations of Generalized Entropy in the Cosmological Setups*, Int. J. Theo. Phys. 55, 4176 (2016).
- 23) H. Moradpour and I. G. Salako: *Thermodynamic Analysis of the Static Spherically Symmetric Field Equations in Rastall Theory*, AHEP. 2016, 349279 (2016).
- 24) H. Moradpour and S. Nasirimoghadam: *Thermodynamic motivations of spherically symmetric static metrics*, Rom. Journ. Phys. 61 (9-10) (2016).
- 25) H. Moradpour and N. Riazi: *Dynamic conformal spherically symmetric solutions in an accelerated background*, Romanian Reports in Physics, 68, 4 (2016)
- 26) 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).
- 27) A. Afroozeh, M. Bahadoran, H. Moradpour, A. Zeinalinezhad and I. S. Amiri: *Effect of Voltage on the Optical Properties of Liquid Photonic Crystal Fiber*, Buletin Optik, 1, 3 (2016).

- 28) M. Bahadoran, H. Moradpour, J. Ali and R. R. Poznanski: *A survey of the new proposal about the photon momentum*, *Optik*, 139, 6 (2017).
- 29) 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).
- 30) H. Moradpour, Y. Heydarzade, F. Darabi and Ines G. Salako: *A generalization to the Rastall theory and cosmic eras*, 77, 259 (2017).
- 31) Y. Heydarzade, H. Moradpour and F. Darabi: *Black Hole Solutions in Rastall Theory*, *Can. J. Phys.* 95, 1253, (2017).
- 32) H. Moradpour, N. Sadeghnezhad and S.H. Hendi: *Traversable asymptotically flat wormholes in Rastall gravity*, *Can. J. Phys.* 95, 1257 (2017).
- 33) 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*, <http://dx.doi.org/10.1016/j.jksus.2017.04.008> (2017).
- 34) H. Moradpour, N. Sadeghnezhad, S. Ghaffari, and A. Jahan: *Thermodynamic Analysis of Gravitational Field Equations in Lyra Manifold*, *AHEP*, 9687976 (2017).
- 35) M. Abdollahi Zadeh, A. Sheykhi and H. Moradpour: *Ghost Dark Energy with Sign-changeable Interaction Term*, *Int. J. Theor. Phys.* 56, 3477 (2017).
- 36) 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).
- 37) 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).
- 38) 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).
- 39) A. Sayahian Jahromi and H. Moradpour: *Static traversable wormholes in Lyra manifold*, *Int. J. Mod. Phys. D* 27, 1850024 (2018).
- 40) H. Moradpour, A. Bonilla, E. M. C. Abreu and J. A. Neto: *Accelerated cosmos in a nonextensive setup*, *Phys. Rev. D* 96, 123504 (2017).
- 41) Ines G. Salako, A. Jawad and H. Moradpour: *Cosmological Implications of Scalar Field Dark Energy Models in  $f(T, \mathcal{T})$  gravity*, accepted by *Int. Jour. Geom. Meth. Mod. Phys* (2017).

## Honors:

- Distinguished researcher of Research Institute for Astronomy and Astrophysics of Maragha (RIAAM), P. O. Box 55134- 441, Maragha, Iran (2017).

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