

# Reza Rashidi



## CONTACT

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## ORCID

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0000-0002-8292-0753

## LANGUAGES

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Persian

English

## Personal Information

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Place of birth Ahvaz, Iran

Nationality Iranian

## Current Position

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Assistant Professor Faculty member at SRTTU

## Education

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**2001-2007 Ph.D.** in General Relativity and Quantum field theory in curved space-time Shahid Beheshti University, Tehran, Iran

**Supervisor:** Prof. Hadi Salehi

**Thesis Title:** Lorentz Violation and Micro- Causality

**1999-2001 M.Sc.** in Particle Physics, Isfahan University, Isfahan, Iran

**Thesis Title:** Duality Symmetries in Gauge Theories

**1994-1999 B.Sc.** in Electrical Engineering, Isfahan University, Isfahan, Iran

**1990-1994** High School at National Organization for Development of Exceptional Talents, Isfahan, Iran

## Work Experience

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**2011-now:** Assistant Professor: Faculty member at SRTTU.

**2020-now:** Head of Physics Department: SRTTU.

## Research Interest

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Algebraic quantum field theory (local quantum physics)

Mathematical foundations of quantum mechanics

Classical and quantum cosmology

Quantum field theory in curved space

## Awards and Honors

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Excellent Teaching Award, SRTTU (2018).

## Publications

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1. M. Mirza, R. Rashidi,  
*"Local duality, chiral supersymmetry and fermion-like formulation of non-Abelian pure gauge fields"*,  
Eur. Phys. J. C 19, 379-381 (2001).
2. H. Salehi, P. Moyassari and R. Rashidi,  
*"A classical cosmological model for triviality"*,  
International Journal of Theoretical Physics, Vol. 45, No. 9,  
September 2006.
3. R. Rashidi, N. Khosravi, E. Khajeh, H. Salehi,  
*"Unruh's detector in the presence of Lorentz symmetry breaking"*,  
Astrophys. Space Sci. (2007) 310: 333–337.
4. R. Rashidi, H. Salehi,  
*"On the non-existence of the micro-causal sector of Lorentz non-invariant quantum field theory on a continuum"*,  
Physics Letters B 655 (2007) 280–283.
5. H. Salehi, P. Moyassari, R. Rashidi,  
*"On the gravitational coupling of Hadamard states"*,  
arXiv:0705.0787.
6. R. Rashidi,  
*"Removing the big bang singularity: the role of the generalized uncertainty principle in quantum gravity"*,  
Astrophysics and Space Science 343 (1), 383-390 (2013).
7. R. Rashidi,  
*"Hubble diagrams in the Jordan and Einstein frames"*,  
General Relativity and Gravitation 51 (1), 8 (2016).
8. R. Rashidi, F. Ahmadi, MR Setare,  
*"Particle creation in the framework of  $f(G)$  gravity"*,  
Astrophysics and Space Science 363 (9), 196 (2018).
9. M. Neek-Amal, R. Rashidi, R.R. Nair, D Neilson, F.M. Peeters,  
*"Electric-field-induced emergent electrical connectivity in*

*graphene oxide*”,  
Physical Review B 99 (11), 115425 (2019).

10. R. Rashidi, F. Ahmadi,  
*“Reciprocity principle and relative accelerations in the theory of  
relativity”*, American Journal of Physics 87, 758 (2019).

