

# Yousef Farzan (Bisabr)\*

## CONTACT

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Iran

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## ORCID

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0000-0003-3732-9275

## LANGUAGES

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Persian

English

\* My family name has been  
changed from Bisabr to Farzan-  
Nahad since 2004

## Personal Information

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Place of birth Iran

Nationality Iranian

## Current Position

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Full Professor SRTTU

## Education

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1997-2001 **Ph.D.** in theoretical Physics

Shahid Beheshti University, Tehran, Iran.

**Supervisor:** Prof. Hadi Salehi

**Thesis:** The Role of Conformal Symmetry in Classical  
and Semi-Classical Gravity

1993-1996 **M.Sc.** in theoretical Physics

Shahid Beheshti University, Tehran, Iran.

**Supervisor:** Prof. HamidReza Sepangi

**Thesis:** Signature Transition in Quantum Cosmology

1997-1991 **B.Sc.** in Physics

Shahid Beheshti University, Tehran, Iran.

## Work Experience

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2001-2009 Assistant Professor: Faculty member at SRTTU.

2004-2009 Head of Physics Department: SRTTU.

2010-2017 Associate professor of physics, SRTTU.

2017 Professor of physics, SRTTU.

2014-2016 Scientific council member of SRTTU.

## Research Interest

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Cosmology

## Awards and Honors

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Prize for the best undergraduate student in Physics, Beheshti University. (1991).

Prizes for the best researcher, SRTTU, (2012).

Prizes for the best researcher, SRTTU, (2010).

Excellent Teaching Award, SRTTU, (2014).

## Publications

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1. H. Salehi, Y. Bisabr  
Conformal Anomaly and Large Scale Gravitational Coupling  
Int. J. Theor. Phys. 39, 1241-1244 (2000)
2. H. Salehi, Y. Bisabr  
Scalar Tensor Theories and Hadamard State Condition  
J. Math. Phys. 41, 4582-4589 (2000)
3. H. Salehi, Y. Bisabr  
Hadamard States and Two-dimensional Gravity  
Int. J. Mod. Phys. A16, 3699-3706 (2001)
4. Y. Bisabr, H. Salehi  
Mechanism for a Decaying Cosmological Constant  
Class. Quant. Grav. 19, 2369-2374 (2002)
5. H. Salehi, Y. Bisabr  
Conformal Invariance, Anomalous Gravitational Coupling and Derivation of a Particle Concept  
hep-th/0301208
6. Y. Bisabr  
Mach's Principle and Model for a Broken Symmetric Theory of Gravity  
Int. J. Theor. Phys. 44, 283-291 (2005)
7. Y. Bisabr  
Conformal Invariance, Accelerating Universe and The Cosmological Constant Problem  
Int. J. Theor. Phys. 43, 2137-2148 (2004)
8. Y. Bisabr  
Cosmological Implication of the Trace Anomaly

Int. J. Theor. Phys. 44, 283-291 (2005)

9. Y. Bisabr  
[Holographic Dark Energy Model and Scalar-Tensor Theories](#) Gen Relativ Gravit 41, 305-313 (2009)
10. Y. Bisabr  
[Comments on Scalar-Tensor Representation of  \$f\(R\)\$  Theories](#) Phys. Scripta 80, 045902 (2009)
11. Y. Bisabr  
[Solar System Constraints on a Cosmologically Viable  \$f\(R\)\$  Theory](#) Phys. Lett. B 683, 96-100 (2010)
12. Y. Bisabr  
[Gravitational Coupling and Dynamical Reduction of The Cosmological Constant](#) Gen Relativ Gravit 42, 1211-1219 (2010)
13. Y. Bisabr  
[Constraining  \$f\(R\)\$  Theories with Temporal Variation of Fine Structure Constant](#) Phys. Lett. B 688, 4-8 (2010)
14. Y. Bisabr  
[Local Gravity Constraints and Power Law  \$f\(R\)\$  Theories](#) Grav. Cosmol. 3, 239 (2010)
15. Y. Bisabr  
 [\$f\(R\)\$  Gravity and Crossing the Phantom Divide Barrier](#) Phys. Lett. B 690, 456-461 (2010)
16. Y. Bisabr  
[Coincidence Problem in  \$f\(R\)\$  Gravity Models](#) Phys. Rev. D 82, 124041 (2010)
17. Y. Bisabr  
[Cosmic Acceleration in Brans-Dicke Cosmology](#) Gen Relativ Gravit 44,427 (2012)
18. Y. Bisabr  
[The Coincidence Problem in Holographic  \$f\(R\)\$  Gravity](#) Phys. Scr. 84, 035901 (2011)
19. Y. Bisabr  
[Coincidence Problem and Holographic  \$f\(R\)\$  Gravity in Spatially flat and Curved Universes](#) Grav. Cosmol. 18, 151 (2012)
20. Y. Bisabr

Crossing Phantom Boundary in  $f(R)$  Modified Gravity : Jordan Frame vs Einstein Frame

Grav. Cosmol. 18, 143 (2012)

21. Y. Bisabr

Cosmic Evolution in a Modified Brans-Dicke Theory

Astrophys Space Sci 339, 87-92 (2012)

22. Y. Bisabr

Modified Gravity with a Non-minimal Gravitational Coupling to Matter

Phys. Rev. D 86, 044025 (2012)

23. Y. Bisabr

Chameleon Brans-Dicke Cosmology

Phys. Rev. D 86, 127503 (2012)

24. Y. Bisabr

Non-minimal Gravitational Coupling of Phantom and Big Rip Singularity

Gen Relativ Gravit 45,1559-1566 (2013)

25. Y. Bisabr

Notes on the Chameleon Brans-Dicke Gravity

Astrophys Space Sci (2014) 350:407-411

26. Y. Bisabr , F. Ahmadi

Effect of the Chameleon Scalar Field on Brane Cosmological Evolution

Phys. Lett. B 774: 671-675 (2017)

27. Y. Bisabr

Cosmological Exact Solutions in Some Modified Gravitational Theories

Grav. Cosmol. 24, 201 (2018)

28. Y. Bisabr

Gravitational Coupling and the Cosmological Constant

Int. J. Mod. Phys. D 27, 1850086 (2018)

29. Y. Bisabr

Cosmological Constant in Chameleon Brans-Dicke Theory

Int. J. Mod. Physics. D 28, 1950022 (2019)

30. Y. Bisabr

Gravitational Coupling, Dynamical Changes of Units and The Cosmological Constant Problem

Comm. Theo. Phys. 72, 035403 (2020)

31. Y. Bisabr

On Non-triviality of Units Transformations To appear in  
Eur. J. Phys. Published online: <https://orcid.org/0000-0003-3732-9275>

