Curriculum Vitae

Saeed Noori Gashti

Ph.D in Particle Physics, Researcher in Theoretical Physics

saeed.noorigashti70@gmail.com

■ DOB : 1991/11/14

■ Marital Status : Single

■ H-index: 34

■ Place of birth: Guilan, Iran

■ Military Service : Elite project

Skills

- latex
- matlab
- Maple
- Wolfram Mathematica
- Microsoft Office
- python
- general computer software
- research & strategy
- physics teacher
- math teacher

Education

Diploma of Mathematics and Physics

Institute/School: "Emam Jafar Sadesq" HighSchool

Fuman, Gilan, Iran

GPA : (19.15 out of 20)

Bachelor of Nuclear Physics

Institute/University: Guilan University

Rasht, Gilan, Iran

GPA : (15.68 out of 20)

Master of Theoretical Physics

Institute/University: Mohaghegh Ardabili University

Ardabil, Iran

GPA : (16.89 out of 20)

PhD in Elementary Particle Physics & Field Theory

Institute/University: University of Mazandaran

Babolsar, Mazandaran, Iran

GPA : (19.24 out of 20)

Social Network

GS: https://scholar.google.com/citations?user=OIZFaNMAAAAJ&hl=en

RG: https://www.researchgate.net/profile/Saeed-Noori-Gashti

ORCID: https://orcid.org/my-orcid?orcid=0000-0001-7844-2640

Web of Science ResearcherID: JZT-20282024

Scopus ID: 57221324429

Languages

English

Reading Level ●●●●○

Writing Level ●●●○○

Listening Level ●●●●○

Speaking Level ●●●○○

Arabic

Reading Level ●●●●●

Writing Level ●●●○○

Listening Level ●●○○○

Speaking Level ●●○○○

Peer Reviewer

Reports on Progress in Physics

The European Physical Journal C

Classical and Quantum Gravity

Physics of the Dark Universe

Astroparticle Physics

Journal of High Energy Astrophysics

Frontiers of Physics

Nuclear Physics B

Physica Scripta

MPLA

Indian Journal of Physics

Journal of Modern Physics

B P International

Editor roles

Guest Editor

Journal of Holography Applications in Physics

https://jhap.du.ac.ir/journal/editorial.board

https://jhap.du.ac.ir/news?newsCode=42

Skill and Expertise

Particle Physics, Theoretical Particle Physics, Quantum Field Theory, Cosmology, Cosmic Inflation, High Energy Physics, Theoretical High Energy Physics, Mathematical Physics, Swampland program.

Awards and honors

Chosen as the first rank student among all master's degree students in theoretical physics of Mohaghegh Ardabili University (2016) and also among doctoral students of particle physics of Mazandaran University (2023).

Third Prize Winner for "Articles on Holography"

(September 18 and 19, 2025 Khazar University, Baku, Azerbaijan)

https://jhap.du.ac.ir/news?newsCode=23

Recommendations

1-Behnam Pourhassan Tanabchi

Professor, School of Physics, Damghan University, Damghan, Iran

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2-Jafar Sadeghi

Professor, School of Physics, Damghan University, P. O. Box 3671641167, Damghan, Iran , Department of Physics, University of Mazandaran, P. O. Box 47416-95447, Babolsar, Iran

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3- Dr. Abdul Jawad

Professor of Physics, Department of Mathematics, COMSATS University Islamabad, Lahore-Campus, Lahore-54000, Pakistan.

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4- Îzzet Sakallı (I.Sakallı, İzzet Sakallı)

Professor of Physics, Eastern Mediterranean University, Physics Department, Eastern Mediterranean University, Famagusta 99628, North Cyprus via Mersin 10, Turkey
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5-Dr. Abdul Jawad, Professor of Physics, Institute for Theoretical Physics and Cosmology, Zhejiang University of Technology, Hangzhou 310023,

China
jawadab181@yahoo.com;abduljawad@cuilahore.edu.pk

Projects

1) Investigating the applications of the swampland program, weak gravity conjecture (WGC) and (AdS/CFT) correspondence in cosmological structures and particle physics.

2) Studying and acquiring knowledge of quantum computer construction based on the photonic integrated circuits.

3) Investigation of the Gravity and Gauge Theories Unification via the AdS/CFT Correspondence and the Swampland Program (Weak gravity conjecture).

Theses

Masters:

Statistical mechanics and thermodynamics in relativistic frameworks

Supervisors: Dr. Hossein Mohammadzadeh and Dr. Morteza Najafi

Grade: A

Abstract:

The aim is to calculate the thermodynamic curvature and check for Bose-Einstein condensation in a bosonic ideal gas, with the density of states related to the relativistic scattering equation in arbitrary integer and fractional dimensions. First, we obtain the internal energy and the number of particles by calculating the density of states for the relativistic scattering equation and the required thermodynamic functions. Using these thermodynamic functions and related variables, we construct a space called the space of thermodynamic parameters and obtain the metric elements of this space. Using the metric elements, we then calculate the thermodynamic curvature. By analyzing its divergences, we check the possibility of condensation.

PhD:

Studying inflation models by using the weak gravity conjecture (WGC) and AdS/CFT correspondence

Supervisor: Prof. Jafar Sadeghi

Grade: A

Abstract:

The universe underwent a primordial acceleration (exponential expansion) in a short time with a high energy scale. This well-known fact is called inflation. Inflation has solved many cosmic problems, including horizons, flatness, and monopole. It also plays a crucial role in explaining the origin of anisotropy in cosmic microwave background radiation and large-scale structures. Inflation models are classified into different categories, and each inflation model belongs to a specific class according to certain characteristics. The well-known classification of inflation is into two groups: standard inflation or cold inflation and warm inflation. There are also several independent methods for classifying inflation models. One classification is based on the initial conditions of inflation, another is based on different regimes possible during inflation, such as quasi-potential inflation, power-law inflation, etc., and the third classification is based on the end of inflation. In this thesis, we consider different inflation models under certain conditions by assuming special conditions and we study them using two methods: weak gravity conjecture (swampland program) and AdS/CFT correspondence with respect to some situations such as slow-roll and constant-roll, etc., in different contexts. We also look for a connection between these two theories. AdS/CFT correspondence, introduced by Maldacena, includes a 5D description of gravitational theory as a conformal field theory at the 4D space-time boundary. This duality can be considered a holographic approach. The swampland program is an exciting subject in many cosmological concepts such as black hole physics, inflation, dark energy, paleontology, etc. Many conjectures were added to the swampland program during these studies. Some of its conjectures were also modified to answer some cosmic problems. However, it is still not accepted as a complete theory. It is associated with difficulties, such as the contradiction between the single-field slow-roll inflation and one of the swampland conjectures that we resolve this problem with some proper adjustments. The swampland program is an astonishing advancement in the phenomenology of quantum gravity theory because it relates to a set of bottom-up approaches to studying low-energy effective field theories and their UV completions. The swampland

program is a list of criteria and conjectures in which a theory is placed and a new adherence to the quantum theory of gravity. Indeed, through this adherence (or non-adherence), one can discuss the compatibility or incompatibility of such views of quantum gravity. These concepts provide very powerful and tangible tools for examining the compatibility of these models and the resulting ideas with the latest observable data. One of the problems with these concepts is that their conjectures and criteria must be based on solid foundations. In contrast, some are based on pure quantum gravity arguments involving black holes or tested to a non-trivial extent in some string theory context. We examine different inflationary models to determine whether these low-energy theories and inflation models by considering specific conditions and various conjectures from the swampland program, such as swampland dS conjecture, swampland distance conjecture, and refined swampland dS conjecture, are compatible with quantum gravity or not. Also, using the hypotheses that exist in the mentioned theories, we seek to study a particular classification of inflation models (compatible and incompatible with quantum gravity). Theories or models that are compatible with quantum gravity are in the landscape, and ideas or models that are incompatible with quantum gravity that do not meet the requirements of these theories are in the swampland. Therefore, we challenge different inflationary models with the above conjectures and compare their results.

1. Ankit Anand, Saeed Noori Gashti, Wijdane El Hadri, Behnam Pourhassan, Holographic correspondence of topological charges in entropy-corrected spacetimes, *Eur. Phys. J. C* (2026) 86:691
2. Noori Gashti, Saeed, et al. "Testing the Weak Gravity Conjecture via Gravitational Lensing, Black Hole Shadows, and Barrow Thermodynamics in F (R)-Euler-Heisenberg (A) dS Black Holes, *JHEP* (2026)
3. Zafar, U., Jawad, A., Bamba, K., Afshar, M. A. S., Alipour, M. R., Gashti, S. N., & Sadeghi, J. (2026). Thermodynamic topology and photon spheres analysis of black holes in brane-world: insights from Barrow entropy. *General Relativity and Gravitation*, 58(3), 30.
4. Usman, M., Chaudhary, S., Jawad, A., Shaymatov, S., Gashti, S. N., Afshar, M. A. S., ... & Sadeghi, J. (2026). Probing topological thermodynamics of specific black holes inspired by corrected entropy. Nuclear Physics B, 117375.
5. Gashti, S. N., Alipour, M. R., Ali, M., Pourhassan, B., & Sadeghi, J. (2026). From Theory to Observation: Swampland Conjectures and ACT Constraints on Marginally Deformed R2 Inflation. *Physics Letters B*, 140398.
6. Gashti, S. N., Pourhassan, B., & Sakalli, I. (2026). Beyond extremality: Weak Gravity Conjecture constraints on gravitational lensing in gravity's rainbow. *JHEP* 04 (2026) 134
7. Gashti, S. N., Anand, A., Singh, A., Mishra, A., Afshar, M. A. S., Alipour, M. R., ... & Sadeghi, J. (2026). Thermodynamic Signatures and Insights into Horava–Lifshitz AdS Black Holes. *International Journal of Geometric Methods in Modern Physics*.
8. ANAND, A., Singh, A., Gashti, S. N., & Pourhassan, B. (2025). Thermodynamic Signatures of Non-Abelian Dilaton Black Holes. *Physics of the Dark Universe*, 102197.
9. Ahmed, F., Gashti, S. N., Bouzenada, A., & Pourhassan, B. (2025). Schwarzschild-AdS black holes with cloud of strings and quintessence: Geodesics, and quasinormal modes. *Nuclear Physics B*, 117260.
10. Gashti, S. N., Sekhmani, Y., Afshar, M. A. S., Alipour, M. R., Masouleh, M. K., Pourhassan, B., ... & Rayimbaev, J. (2025). Thermodynamic signatures in black hole geometry and harmonic oscillations with nonlinear electromagnetic fields and phantom global monopole. *Nuclear Physics B*, 117244.
11. Gashti, S. N., Anand, A., Afshar, M. A. S., Alipour, M. R., Sekhmani, Y., Pourhassan, B., ... & Sadeghi, J. (2025). AdS-Schwarzschild-like black hole thermodynamics: Loop quantum gravity impact on topology and universality. *Nuclear Physics B*, 1021, 117188.
12. Sekhmani, Y., Baruah, A., Al-Badawi, A., Maurya, S. K., Jasim, M. K., Altanji, M., & Gashti, S. N. (2025). Quasinormal spectra, greybody factors, optical shadows, and light deflection by dyonically charged black holes in metric-affine gravity with torsion and nonmetricity. *Chinese Journal of Physics*.
13. Afshar, M. A. S., Gashti, S. N., Alipour, M. R., & Sadeghi, J. (2025). Overcoming Barriers: Kramers' Escape Rate Analysis of Metastable Dynamics in First-Order Multi-Phase

Transitions, *Journal of High Energy Physics* 2025 (163).

14. Gashti, S. N., Afshar, M. A. S., Alipour, M. R., Pourhassan, B., & Sadeghi, J. (2025). From minimal Higgs inflation with (R 2) term in palatini gravity to Swampland conjectures under ACT constraints. *The European Physical Journal C*, 85(11), 1343
15. Gashti, S. N., Sekhmani, Y., Afshar, M. A. S., Alipour, M. R., Jawad, A., Sakallı, İ., ... & Rayimbaev, J. (2025). Frolov–AdS black holes immersed in a string fluid: Harmonic oscillations, phase structure, and topological classification. *Physics of the Dark Universe*, 102150.
16. Alipour, M. R., Sekhmani, Y., Gashti, S. N., Afshar, M. A. S., Pourhassan, B., Sakallı, İ., ... & Rayimbaev, J. (2025). Topological thermodynamics and observable signatures of charged black holes in modified gravity. *Physics of the Dark Universe*, 102139.
17. Gashti, S. N., Anand, A., Singh, A., Mishra, A., Afshar, M. A. S., Alipour, M. R., ... & Sadeghi, J. (2025). Thermodynamic scalar curvature and topological classification in accelerating charged AdS black holes under rainbow gravity. Physics of the Dark *Universe*, 102136.
18. Ahmed, F., Noori Gashti, S., Pourhassan, B., & Bouzenada, A. (2025). Thermodynamics and Joule–Thomson expansion of Schwarzschild-AdS black holes with a cloud of strings and quintessential-like fluid. *The European Physical Journal C*, 85(10), 1149.
19. Gashti, S. N., Afshar, M. A. S., Sekhmani, Y., Shaymatov, S., Jawad, A., Alipour, M. R., ... & Rayimbaev, J. (2025). Thermodynamic insights into ModMax-AdS black holes: A bridge between electrodynamic corrections and black hole physics. *Nuclear Physics B*, 117152.
20. Gashti, S. N., Afshar, M. A. S., Alipour, M. R., Sakallı, İ., Pourhassan, B., & Sadeghi, J. (2025). Weak gravity conjecture in ModMax black holes: weak cosmic censorship and photon sphere analysis. *The European Physical Journal C*, 85(10), 1-15.
21. Afshar, M. A. S., Alipour, M. R., Gashti, S. N., & Sadeghi, J. (2025). A Deep Dive into classical and Topological CFT Thermodynamics in Lifshitz and Hyperscaling Violating Black Holes. *Fortschritte der Physik*, e70030.
22. Alipour, M. R., Afshar, M. A. S., Gashti, S. N., Pourhassan, B., & Sadeghi, J. (2025). Probing the weak gravity conjecture: Novel Aschenbach signatures in superextremal non-linear charged AdS black holes. *Physics Letters B*, 139902.
23. Afshar, M. A. S., Noori Gashti, S., Alipour, M. R., & Sadeghi, J. (2025). Kramer's escape rate and phase transition dynamics in AdS black holes. *The European Physical Journal C*, 85(9), 939.
24. Sekhmani, Y., Luciano, G. G., Gashti, S. N., & Baruah, A. (2025). Infrared Extended Uncertainty Principle corrections and quintessence-induced topology of Reissner-Nordström AdS black holes. Annals of Physics, 170187.
25. Gashti, S. N., Sakallı, İ., Farahani, H., Rudra, P., & Pourhassan, B. (2025). Impact of Loop Quantum Gravity on the Topological Classification of Quantum-Corrected Black Holes. Universe, 11(8), 247.
26. Anand, A., & Gashti, S. N. (2025). Van der Waals black holes: Universality, quantum corrections, and topological classifications. Physics of the Dark Universe, 102018.

27. Anand, A., & Gashti, S. N. (2025). Universal relations with the non-extensive entropy perspective. Physics of the Dark Universe, 102015.
28. Gashti, S. N., & Pourhassan, B. (2025). Cosmic-quantum connections: Assessing the viability of weak gravity and weak cosmic censorship conjectures in Kerr-Newman-Kiselev-Letelier black hole. Physics Letters B, 139730.
29. Noori Gashti, S. (2025). Thermodynamic Topology of Einstein-Maxwell-Scalar Black Holes: Insights from Barrow entropy and Logarithmic Corrections. Journal of Holography Applications in Physics, 5(2), 72-85.
30. Anand, A., Gashti, S. N., & Singh, A. (2025). Thermodynamic curvature and topological insights of Hayward black holes with string fluids. Physics of the Dark Universe, 101994.
31. Anand, A., & Gashti, S. N., (2025). Universality Relation and Thermodynamic Topology with three-Parameter Entropy Model. Physics of the Dark Universe
32. Gashti, S. N., & Pourhassan, B., (2025). Non-extensive Entropy and Holographic Thermodynamics: Topological Insights, European Physical Journal C
33. Alipour, M. R., Gashti, S. N., Afshar, M. A. S., & Sadeghi, J. (2025). Cooling and heating regions of Joule-Thomson expansion for AdS black holes: Einstein-Maxwell-power-Yang-Mills and Kerr Sen black holes. General Relativity and Gravitation, 57(3), 61.
34. Gashti, S. N., Pourhassan, B., & Sakallı, I. (2025). Thermodynamic topology and phase space analysis of AdS black holes through non-extensive entropy perspectives. The European Physical Journal C, 85(3), 305.
35. Anand, A., Gashti, S. N., Alipour, M. R., & Afshar, M. A. S. (2025). Analyzing WGC and WCCC through charged scalar fields fluxes with charged AdS black holes surrounded by perfect fluid dark matter in the CFT thermodynamics. Nuclear Physics B, 1013, 116857.
36. Sekhmani, Y., Maurya, S. K., Jasim, M. K., Gashti, S. N., Rayimbaev, J., & Pourhassan, B. (2025). Extended phase space thermodynamics and critical behavior of charged AdS black holes surrounded by polytropic scalar field gas. Physics of the Dark Universe, 48, 101860.
37. Alipour, M. R., S. Afshar, M. A., Noori Gashti, S., & Sadeghi, J. (2025). Weak gravity conjecture validation with photon spheres of quantum corrected Reissner–Nordstrom–AdS black holes in Kiselev spacetime. The European Physical Journal C, 85(2), 138.
38. Brzo, A. B., Gashti, S. N., Pourhassan, B., & Beikpour, S. (2025). Thermodynamic Topology of AdS Black Holes within Non-Commutative Geometry and Barrow Entropy. Nuclear Physics B, 116840.
39. Gashti, S. N., Afshar, M. A. S., Alipoury, M. R., Sekhmani, Y., Sadeghi, J., & Rayimbaeva, J. (2025). Thermodynamic topology of Kiselev-AdS black holes within f (R, T) gravity. Chinese Physics C, 49(3), 035110
40. Gashti, S. N., Alipour, M. R., Afshar, M. A. S., & Sadeghi, J. (2025). Noncommutativity and its role in constant-roll inflation models with non-minimal coupling constrained by swampland conjectures. Chinese Physics C, 49(2), 025108-025108
41. Alipour, Mohammad Reza, J Sadeghi, SN Gashti, MAS Afshar (2025). "The interplay of WGC and WCCC via charged scalar field fluxes

in the RPST framework." Journal of High Energy Astrophysics, 45, 160-167.

42. Sadeghi, Jafar, MAS Afshar, MR Alipour, SN Gashti (2025). "Phase transition dynamics of black holes influenced by Kaniadakis and Barrow statistics." Physics of the Dark Universe, 101780.
43. Noori Gashti, S., Alipour, M. R., Afshar, M. A. S., & Sadeghi, J. (2025). Dark energy evolution: non-interacting and interacting cases. Iranian Journal of Astronomy and Astrophysics, 11(4), 245-273
44. Sadeghi, Jafar, SN Gashti, MR Alipour, MAS Afshar. (2024). Weak Cosmic Censorship and Weak Gravity Conjectures in CFT Thermodynamics." Journal of High Energy Astrophysics, 44, 482-493.
45. Gashti, S. N., Alipour, M. R., & Afshar, M. A. S. (2024). Exploring the Parameter Space of Inflation Model on the Brane and its Compatibility with the Swampland Conjectures. Journal of Holography Applications in Physics, 4 (3), 35-50.
46. Sadeghi, J., & Gashti, S. N. (2024). Influences of perfect fluid dark matter on coinciding validity of the weak gravity and weak cosmic censorship conjectures for Kerr-Newman black hole. Nuclear Physics B, 1006, 116657.
47. Sadeghi, J., Alipour, M. R., Afshar, M. A. S., & Noori Gashti, S. (2024). Exploring the phase transition in charged Gauss–Bonnet black holes: a holographic thermodynamics perspectives. General Relativity and Gravitation, 56(8), 93.
48. Sadeghi, J., Noori Gashti, S., Alipour, M. R., & S. Afshar, M. A. (2024). Thermodynamic Topology of Quantum Corrected AdS-Reissner-Nordstrom Black Holes in Kiselev Spacetime. Chinese Physics C, 48, 11.
49. Gashti, S. N. (2024). Topology of Holographic Thermodynamics within Non-extensive Entropy. Journal of Holography Applications in Physics 4 (4), 59-70
50. Shokri, M., Sadeghi, J., Herrera, R., & Gashti, S. N. (2024). Warm inflation with bulk viscous pressure for different solutions of an anisotropic universe. Physica Scripta, 99(9), 095010.
51. Sadeghi, J., Gashti, S. N., Alipour, M. R., & Afshar, M. A. S. (2024). Swampland Conjectures and Noncommutative Phase Space in the Constant-roll Inflation with Brans-Dicke Cosmology. International Journal of Theoretical Physics, 63(12), 1-20.
52. Sadeghi, J., & Gashti, S. N. (2024). Investigation of thermal properties of Hulth\'{e} n potential from statistical and superstatistical perspectives with various distributions. Physica Scripta, 99(9), 095254.
53. Sadeghi, J., & Gashti, S. N. (2024). Reissner-Nordström black holes surrounded by perfect fluid dark matter: Testing the viability of weak gravity conjecture and weak cosmic censorship conjecture simultaneously. Physics Letters B, 853, 138651.
54. Khosravani, F., Sadeghi, J., & Noori Gashti, S. (2024). Universal relations of dyonic ModMax and Taub-NUT black holes thermodynamics and central charge. Pramana, 98(3), 92.
55. Sadeghi, J., Afshar, M. A. S., Gashti, S. N., & Alipour, M. R. (2024). Thermodynamic topology of black holes from bulk-boundary, extended, and restricted phase space perspectives. Annals of Physics, 460, 169569.
56. Sadeghi, J., Alipour, M. R., Afshar, M. A. S., & Gashti, S. N. (2024). Investigation of hidden symmetry in AdS5 black hole with Heun equation. International Journal of Modern Physics A, 39 (01), 2450001.
57. Sadeghi, J., Afshar, M. A. S., Gashti, S. N., & Alipour, M. R. (2024). Topology of Hayward-AdS

black hole thermodynamics. Physica Scripta, 99(2), 025003.

58. Sadeghi, J., Afshar, M. A. S., Gashti, S. N., & Alipour, M. R. (2024). Thermodynamic topology and photon spheres in the hyperscaling violating black holes. Astroparticle Physics, 156, 102920.
59. Sadeghi, J., Gashti, S. N., Sakallı, İ., & Pourhassan, B. (2024). Weak gravity conjecture of charged-rotating-AdS black hole surrounded by quintessence and string cloud. Nuclear Physics B, 116581.
60. Sadeghi, J., Alipour, M. R., Gashti, S. N., & Afshar, M. A. S. (2024). Bulk-boundary and RPS Thermodynamics from Topology perspective. Chinese Physics C, 48(9), 095106.
61. Sadeghi, J., Shokri, M., Alipour, M. R., & Gashti, S. N. (2023). Weak gravity conjecture from conformal field theory: a challenge from hyperscaling violating and Kerr-Newman-AdS black holes. Chinese Physics C, 47(1), 015103.
62. Sadeghi, J., Gashti, S. N., & Azizi, T. (2023). Tsallis holographic dark energy under complex form of quintessence model. Communications in Theoretical Physics, 75(2), 025402.
63. Sadeghi, J., Pourhassan, B., Gashti, S. N., Upadhyay, S., & Mezerji, E. N. (2023). The emergence of universal relations in the AdS black holes thermodynamics. Physica Scripta, 98(2), 025305.
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66. Sadeghi, J., Pourhassan, B., Gashti, S. N., Sakallı, I., & Alipour, M. R. (2023). De Sitter swampland conjecture in string field inflation. The European Physical Journal C, 83(7), 635.
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71. Sadeghi, J., Alipour, M. R., & Gashti, S. N. (2023). Emerging WGC from the Dirac particle around black holes. Modern Physics Letters A, 38(26n27), 2350122.
72. Noori Gashti, S., Sadeghi, J., & Alipour, M. R. (2023). Further refining swampland dS conjecture in mimetic f (G) gravity. International Journal of Modern Physics D, 32(03), 2350011.
73. Gashti, S. N. (2022). Two-field inflationary model and swampland de Sitter conjecture. Journal of Holography Applications in Physics, 2 (1), 13-24.
74. Gashti, S. N., & Sadeghi, J. (2022). Constraints on cosmological parameters in light of the scalar–tensor theory of gravity and swampland conjectures. Modern Physics Letters A, 37(18), 2250110.
75. Sadeghi, J., Gashti, S. N., & Darabi, F. (2022). Swampland conjectures in hybrid metric-Palatini gravity. Physics of the Dark Universe, 37, 101090.

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78. Gashti, S. N., & Sadeghi, J. (2023). New wormhole shape functions in f (R, T) theory of gravity. International Journal of Geometric Methods in Modern Physics, 20(01), 2350004.
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81. Sadeghi, J., Shokri, M., Gashti, S. N., & Alipour, M. R. (2022). RPS thermodynamics of Taub–NUT AdS black holes in the presence of central charge and the weak gravity conjecture. General Relativity and Gravitation, 54(10), 129.
82. Sadeghi, J., Gashti, S. N., & Alipour, M. R. (2022). Notes on further refining de Sitter swampland conjecture with inflationary models. Chinese Journal of Physics, 79, 490-502.
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Conferences

The topic of the conference, training course and....	Date and duration	Country name	Row
Tehran School on Swampland Program	Monday 16 May to Thursday 19 May2022	Iran (online)	**1**
pre-school that covers basics of string theory, compactifications and black hole physics	2022 (7-12 May)	Iran (online)	**2**
1 st International Conference of Holography and its Applications	March, 9th & 10t 2022	Iran (online)	**3**
ICRANet-Isfahan Astronomy Meeting	3 to 5 November 2021	Iran (online)	**4**
Iran physics conference	21 to 25 August 2016	Iran (online)	**5**
International Conference on High Energy Physics	6,7 Jul 2022	Iran (online)	**6**
The 6th Bego Rencontre Summer School	4 Jul 2022, 09:00 - 14 Jul 2022, 18:00	Italy (online)	**7**
Summer School on Cosmology 2022 | (smr 3720)	Jul 4, 2022 09:00 Rome to Jul 15, 2022	Italy (online)	**8**
"Kavli Asian Winter School (KAWS) on Strings, Particles and Cosmology (ONLINE)" (ICTS)	10 January 2022 to 23 January 2022	India (online)	**9**
IPM (HEP)	18 April 204	Iran (online)	**10**
4th seminar in the International Conference on Holography and its Applications	September 18 and 19, 2025	**Azerbaijan** (online)	**11**