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Education

- ✓ B.Sc, Nuclear Physics, Shiraz University - 2008
- ✓ MS, Elementary Particle Physics and Field Theory, Shiraz University - 2010
- ✓ PhD, Elementary Particle Physics and Field Theory, Shiraz University - 2015

Courses

- | | |
|--|---------------------------------|
| 1. Basic Physics 2 | 2. Mathematical Physics2 |
| 3. Thermodynamics and Statistical Physics1 | 4. Advanced Quantum Mechanics 1 |
| 5. Advanced Quantum Mechanics | 6. Physics 2 |
| 7. Physics 1 | 8. Analytical Mechanics2 |
| 9. Basic Physics 1 | 10. Relativity |
| 11. Analytical Mechanics1 | 12. Mathematical Physics1 |
| 13. Special Topics of Nuclear Physics | 14. Special Topics 1 |
| 15. Quantum Field Theory 1 | 16. Symmetry and Group Theory |
| 17. Quantum Field Theory2 | 18. Physics Laboratory 1 |
| 19. Relativity Theory | 20. Physics 1 |
| 21. Technical English | 22. Quantum Mechanics1 |
| 23. Physics 1 | 24. Mathematical Physics1 |
| 25. Quantum Mechanics1 | 26. Analytical Mechanics1 |
| 27. Physics Laboratory I | 28. Mathematical Physics2 |
| 29. Special Topics 1 | 30. Quantum Mechanics2 |

Thesis

Master Thesis

1. Introducing the variant tensor splittings and their application to solve multi-linear systems

فاطمه آسوده, [Maryam Mojarab, Soodeh Zarepour]

نیمسال دوم سال تحصیلی 1401

2. Holographic heat engines with stringy and radiative corrections of superstring theory and quantum electrodynamics

نیلوفر خراسانی, [Soodeh Zarepour, Ali Dehghani]

نیمسال دوم سال تحصیلی 98-99

3. Study of pp scattering in the inelastic region in generalized linear sigma model

حمیدرضا صادقی, [Ali Akbar Mehman Doost Khajeh Dad, Soodeh Zarepour, Vahid Dehghani, Mahboobe Sayahi, Seyed Alireza Alavi]

نیمسال اول سال تحصیلی 96-97

Journals Papers

2023

1. Thermodynamic schemes of charged BTZ-like black holes in arbitrary dimensions

Ali Dehghani, Behnam Pourhassan, Soodeh Zarepour, Emmanuel N. Saridakis

Physics of the Dark Universe Volume: (42) 101371-1 - 101371-16

2022

2. Self-energy problem, vacuum polarization, and dual symmetry in Born-Infeld-type U(1) gauge theories

Ali Dehghani, Mohammad Reza Setare, Soodeh Zarepour

European Physical Journal Plus Volume: (137) 859-1 - 859-19

3. Chiral nonet mixing in pi eta scattering

Amir H. Fariborz, Soodeh Zarepour, Esmail Pourjafarabadi, S. Mohammad Zebarjad

EUROPEAN PHYSICAL JOURNAL C Volume: (82) 1133-1 - 1133-26

2021

4. Holographic Joule-Thomson expansion in lower dimensions

Soodeh Zarepour

PHYSICA SCRIPTA Volume: (96) 125011-1 - 125011-16

5. Holographic heat engines coupled with logarithmic U(1) gauge theory

Soodeh Zarepour

INTERNATIONAL JOURNAL OF MODERN PHYSICS D Volume: (30) 2150109-1 - 2150109-31

2018

6. Mixing among lowest-lying scalar mesons and scalar glueball

Hajar Noshad, S. Mohammad Zebarjad, Soodeh Zarepour

NUCLEAR PHYSICS B Volume: (934) 408 - 436

Conferences Papers

2023

1. [Holographic superconductivity from four-dimensional cubic Einstein-Lovelock theory](#)

2nd International Conference on Holography and its Applications

Soodeh Zarepour, ali dehghani

2018

2. [Mixing among scalar mesons and scalar glueball](#)

8th particle physics ad fields conference

Hajar Noshad, S. Mohammad Zebarjad, Soodeh Zarepour

3. [Study coupled pi eta KK scattering from generalized linear sigma model](#)

Annual physics conference of Iran-1397

Soodeh Zarepour, Hajar Noshad, S. Mohammad Zebarjad

Executive activities

[مشاوره دانشجویان کارشناسی](#)

from 1402/11/21 - to 1403/04/04

[مشاوره دانشجویان کارشناسی](#)

from 1402/07/01 - to 1402/11/05