

Curriculum Vitae

Personal Details

<i>First Name</i>	<i>Alireza</i>
<i>Last Name</i>	<i>Olamaei</i>
<i>Date of Birth</i>	<i>23 May, 1983</i>
<i>Nationality</i>	<i>Iranian</i>
<i>Gender</i>	<i>Male</i>

Contact Information

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Educations and Degrees

<i>BSc</i>	<i>Sep.2001 - Sep.2005</i>	<i>Electrical Engineering/Shiraz University</i>
<i>MSc</i>	<i>Sep.2005 - Sep.2007</i>	<i>High Energy and Particle Physics / Shiraz University</i>
<i>PhD</i>	<i>Sep.2007 - Feb.2013</i>	<i>High Energy and Particle Physics / Shiraz University</i>

Achievements

- ❖ Ranked 1st in PhD Entrance Exam (May 2007)
- ❖ Top Student in PhD
- ❖ Distinguished Lecturer, Jahrom University, May 2013
- ❖ Distinguished Lecturer, Jahrom University, May 2017
- ❖ Indexed two of my papers by **Nature Journal** which caused Jahrom University ranked 20th among Iran Universities:
<https://www.nature.com/nature-index/institution-outputs/generate/all/countries-Iran/all>
and Physics department 13th :
<https://www.nature.com/nature-index/institution-outputs/generate/physical-sciences/countries-Iran/academic>

Positions

- ❖ *Assistant Professor of High Energy Physics, Jahrom University, Jahrom, Iran.*
- ❖ *Visiting Professor at Institute for Research in Fundamental Sciences (IPM) (Sep. 2019 – Apr. 2020)*
- ❖ *Resident Researcher at Institute for Research in Fundamental Sciences (IPM) (Apr. 2020 –Dec. 2020)*
- ❖ *Part-time Researcher at Institute for Research in Fundamental Sciences (IPM) (March 2021 - present)*

Administrative Records

- ❖ *Head of Physics Department (Oct. 2013 – Nov. 2017)*
- ❖ *Member of Research Council (Sep. 2016 – Sep. 2017)*
- ❖ *Member of Education Council (Apr. 2018 – Apr. 2019 and Apr. 2022 – now)*

Schools and Conferences

- ❖ *Presenting a Poster in The UAE-CERN Workshop on High Energy Physics and Applications (26-28 Nov. 2007, Al-Ain (UAE)).*
- ❖ *A talk in 25th IPM Physics Spring Conference (20-21 Jun. 2018, Tehran, Iran).*
- ❖ *ICTP Summer School on Particle Physics (10-21 Jun. 2019, Trieste, Italy).*

Publications

- ❖ A. R. Olamaei, K. Azizi, *Radiative $\Xi_b^- \rightarrow \Xi^- \gamma$ Decay*, Eur. Phys. J. C, **82** (2022) 68. (indexed by Nature)
- ❖ A. Bazrafshan, R. Olamaei, *Surface Terms of Quintic Quasitopological Gravity and Thermodynamics of Quasi-Topological Magnetic Brane Coupled to Nonlinear Electrodynamics*, Eur. Phys. J. C, **82** (2022) 332. (indexed by Nature)
- ❖ K. Azizi, A. R. Olamaei, S. Rostami, *Strong interaction of doubly heavy spin-3/2 baryons with light vector mesons*, Eur. Phys. J. C **80** (2020) 1196.
- ❖ S. Rostami, K. Azizi, A. R. Olamaei, *Strong Coupling Constants of the Doubly Heavy Spin-1/2 Baryons with Light Pseudoscalar Meson*, Chin. Phys. C **45** (2021) 2, 023120.
- ❖ A. R. Olamaei, K. Azizi, S. Rostami, *Strong coupling constant of the doubly heavy Ξ_{QQ} Baryons with π Mesons*, Eur. Phys. J. C **80** (2020) 613.
- ❖ A. Bazrafshan, F. Naeimipour, A. R. Olamaei, M. Ghanaatian, *Thermodynamics of static solutions in (n+1)-dimensional quintic quasitopological gravity*, Phys. Rev. D **100**, 124018 (2019).

- ❖ M. Mohammadi, A. R. Olamaei, *Relativistic Massless Solitons in 3+1 Dimensions*, arXiv: 1908.10291 [nlin.PS], submitted.
- ❖ M. Mohammadi, A. R. Olamaei, *Introducing the stability catalyzer for relativistic soliton solutions*, arXiv: 1902.02648 [physics.class.ph, nlin.PS], submitted.
- ❖ M. Mohammadi, A. R. Olamaei, *Non-Topological Solitons in 3+1 Dimensions*, arXiv: 1811.00860 [physics.class.ph, hep.th], submitted.
- ❖ K. Azizi, A. R. Olamaei, S. Rostami, *Beautiful mathematics for beauty-full and other multi-heavy hadronic systems*, Eur. Phys. J. A **54**, no. 9, 162 (2018).
- ❖ A. R. Olamaei, *Rare Radiative Decays of Vector and Axial-Vector B_c Mesons to (D_s, D_s^*, D_{s1}) Final States*, Eur. Phys. J. Plus (2018) 133: 552.
- ❖ M. Mohammadi, A. R. Olamaei, *Soliton-like Solutions of the Complex Non-linear Klein-Gordon Systems in 1+1 Dimensions*, Iranian Journal of Astronomy and Astrophysics, Vol.4, Issue 1, (2017).
- ❖ M. Mohammadi, A. R. Olamaei, *Introducing Stable Real Non-topological Solitary Wave Solutions in 1+1 Dimensions*, Iranian Journal of Astronomy and Astrophysics, Vol.4, Issue 3, (2017).
- ❖ K. Azizi, N. Ghahramani, A. R. Olamaei, *Rare Radiative Transition B_c to $D_{s1}(2460)$ gamma in QCD*, Phys. Rev. D **87**, 016013 (2013).
- ❖ N. Ghahramani, M. Ghanaatian, A. R. Olamaei, *L/T Cross-section Separation for Electroproduction of Neutral Pion*, Journal of Theoretical and Applied Physics, **Vol. 2, No. 4**, March 2009.

Teachings

Graduate Courses

- ❖ *Quantum Field Theory*
- ❖ *Advanced Quantum Mechanics I & II*
- ❖ *Electrodynamics*
- ❖ *Advanced Statistical Mechanics*
- ❖ *Particle Physics*

Undergraduate Courses

- ❖ *Fundamentals of Physics I (Mechanics)*
- ❖ *Fundamentals of Physics II (Electricity and Magnetism)*
- ❖ *Analytical Mechanics I & II*
- ❖ *Electromagnetism I & II*
- ❖ *Quantum Mechanics I & II*
- ❖ *Relativity*

- ❖ *Modern Physics*
- ❖ *Elementary Particles*
- ❖ *Mathematical Methods in Physics I, II & III*
- ❖ *Electronics*
- ❖ *Statistical Physics*

Software

- ❖ *Experiences with Mathematica, MATLAB, Maple, C++ and Python.*

Research Interests

- ❖ *Beyond the Standard Model Physics*
- ❖ *Modified Gravity*
- ❖ *Machine Learning Applications in Particle and Astro-particle Physics*
- ❖ *Quantum field theory, information and quantum gravity*