

Curriculum vitae

 <p>SAHEB SOROUSHFAR Assistant Professor of Physics</p>	Faculty:	Technology and Mining
	University:	Yasouj, Iran
	Nationality:	Iranian
	Day of the Birth:	August, 11, 1982
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Research Interests: <ul style="list-style-type: none">• Gravitation and Cosmology (Specially: Geodesics, Shadow and Thermodynamics of Black holes)• Astronomy and Astrophysics• Solar Energy, Energy Engineering, New Technologies		

Education/Qualifications:

- **PhD.** In Theoretical Physics (Gravitation), University of Guilan, Rasht, Iran, July 2016. Thesis Supervisor: Dr. R. Saffari.
- **M.Sc.** In Astronomical Physics, Shahid Chamran University of Ahvaz, Ahvaz, Iran, July 2009. Thesis Supervisor: Dr. H. Asareh.
- **B.Sc.** In Solid State Physics, University of Yasouj, Yasouj, Iran, January 2005.

Teaching Experience:

1. Shahid Chamran University of Ahvaz (2007) (Basic Physics Labs 1, 2).
2. Payam Noor University of Dehdasht (2007-2012) (Elementary Astronomy, Statistical Mechanics, Electromagnetism, Quantum Physics 1, Modern Physics 1, Special Relativity, Thermodynamics, Solid state Physics, optics, Philosophy of Physics, Waves, Superconductivity, Mathematical Physics 2, Basic Physics 1, 2, Optics Lab, Basic Physics Labs 1,2).
3. Azad Universities of (Masjed Soleiman, Dehdasht and Behbahan) (2007-2011) (Basic Physics 1, 2, Basic Physics Labs 1, 2, Electromagnetism).

4. University of Yasouj (2009-2012) (Elementary Astronomy, Basic Physics 1, 2, Basic Physics Labs 1, 2).
5. Payam Noor University of Rasht (2012-2014) (Basic Physics 1, 2)
6. University of Guilan (2012-2016) (Basic Physics 1, 2).

Publications:

1. Saheb Soroushfar, Reza Saffari, Jutta Kunz, Claus Lämmerzahl, Analytical solutions of the geodesic equation in the spacetime of a black hole in $f(R)$ gravity, **Phys. Rev. D** **92**, 044010 (2015), arXiv:1504.07854 (2015).
2. Saheb Soroushfar, Reza Saffari, Afsaneh Jafari, Study of geodesic motion in a (2+1)-dimensional charged BTZ black hole, **Phys. Rev. D** **93**, 104037 (2016), arXiv:1512.08449 (2015).
3. Saheb Soroushfar, Reza Saffari, Ehsan Sahami, Geodesic equations in the static and rotating dilaton black holes: Analytical solutions and applications, **Phys. Rev. D** **94**, 024010 (2016), arXiv:1601.03143 (2016).
4. Saheb Soroushfar, Reza Saffari, Sobhan Kazempour, Saskia Grunau and Jutta Kunz, Detailed study of geodesics in the Kerr-Newman-(A) dS spacetime and the rotating charged black hole spacetime in $f(R)$ gravity, **Phys. Rev. D** **94**, 024052 (2016), arXiv:1605.08976 (2016).
5. Bahareh Hoseini, Reza Saffari, Saheb Soroushfar, Jutta Kunz, Saskia Grunau, Analytic treatment of complete geodesics in a static cylindrically symmetric conformal spacetime, **Phys. Rev. D** **94**, 044021 (2016), arXiv:1602.03898 (2016).
6. Saheb Soroushfar, Reza Saffari, Negin Kamvar, Thermodynamic geometry of black holes in $f(R)$ gravity, **EUR. PHYS. J. C** (2016) **76**: 476, arXiv: 1605.00767 (2016).
7. Bahere Hoseini, Reza Saffari, Saheb Soroushfar, Study of the geodesic equations of a spherical symmetric spacetime in conformal Weyl gravity, **CLASSICAL. QUANT. GRAV** (2017), <https://doi.org/10.1088/1361-6382/aa5a63>, arxiv: 1606.06558 (2016).
8. Saheb Soroushfar, Reza Saffari, Saskia Grunau , Geodesic motion in the spacetime of a static charged black hole in $f(R)$ gravity, arXiv:1605.08975 (2016).
9. Sobhan Kazempour, Reza Saffari, Saheb Soroushfar, Analytical solutions of the geodesic equation in the (rotating) black string-(anti-) de sitter spacetime, arxiv:1606.06106 (2016).
10. Sara Dastan, Reza Saffari, Saheb Soroushfar, Shadow of a rotating charged black hole in $f(R)$ gravity, arxiv:1606.06994 (2016).
11. Bahere Hoseini, Reza Saffari, Saheb Soroushfar, Geodesic Motion in the spacetime Of a SU(2)-Colored (A)ds Black Holes in Conformal Gravity, arxiv: 1606.06545 (2016).

12. Negin Kamvar, Reza Saffari, Saheb Soroushfar, Thermodynamics of rotating black holes in conformal gravity, arxiv: 1511.03480 (2015).
13. Sara Dastan, Reza Saffari, Saheb Soroushfar, Shadow of a rotating Ker-Sen dilaton-axion black hole, arxiv: 1610.09477 (2016).
14. Mahnam Ahmadnejad, Reza Saffari, Saheb Soroushfar, The analytical solution of linear DNA equation as a geometrical curve, in preparation (2016) .
15. Saheb Soroushfar, Reza Saffari, Sobhan Kazempour, The complete set of solutions of the geodesic equations in the spacetime of a rotating charged cylindrical black hole, in preparation (2016).
16. Negin Kamvar, Reza Saffari, Saheb Soroushfar, Phase transition and thermodynamic geometry of rotating black holes with scalar hair in three dimensions, in preparation (2016).
17. Bahere Hoseini, Reza Saffari, Saheb Soroushfar, Geodesic of electrically and magnetically charged test particle in the spacetime of a charged black hole in $f(R)$ gravity, in preparation (2016) .
18. Mojtaba Haghshenas, Reza Saffari, Saheb Soroushfar, Study of geodesic motion in higher dimensional static spherically symmetric space-times combined by cosmic string, in preparation (2015).
19. Reza Mahdavi, Reza Saffari, Saheb Soroushfar, Effects of cosmic background radiation on observer's sky in the vicinity of schwarzschild de-Sitter black holes, in preparation (2015).
20. Saheb Soroushfar, Reza Saffari, Exact calculation of the perihelion precession of mercury in $f(R)$ gravity, in preparation (2016).
21. Bahere Hoseini, Reza Saffari, Saheb Soroushfar, Charged particles motion around the spacetime of a charged black hole in conformal gravity, in preparation (2016).
22. Afsaneh Jafari, Reza Saffari, Saheb Soroushfar, Isofrequency pairing of spinning particles in dilaton spacetimes, in preparation (2016).

Conferences:

1. Study the Shadow of Rotating Dilaton Black Hole in The Presence of Plasma, National Conference in Gravitation and Cosmology, IASBS, Zanzan, Iran, (08/02/2017).
2. Negin Kamvar, Reza Saffari, Saheb Soroushfar, Study of Thermodynamic quantities of static charged black hole in $f(R)$ gravity, 23th Spring Conference in physics, IPM, Tehran, Iran, (19/05/2016).

3. Sara Dastan, Reza Saffari, Saheb Soroushfar, Study of rotating dilaton black hole's shadow, 23th Spring Conference in physics, IPM, Tehran, Iran, (19/05/2016).
4. Sara Dastan, Reza Saffari, Saheb Soroushfar, Study of black hole's shadow in $f(R)$ gravity, 19th Meeting of astronomy research in Iran, IASBS, Zanjan, Iran, (13/05/2016).
5. Mahnam Ahmadnezhad, Reza Saffari, Saheb Soroushfar, Analytical solution of the equations of motion of linear DNA as a geometric curve, National Conference in physics and Applications, University of Malayer, Hamadan, Iran, (28/01/2016).
6. Negin Kamvar, Reza Saffari, Saheb Soroushfar, Study of the thermodynamic features of rotating BTZ black hole in the barns – Dick model, National Conference in Gravitation and Cosmology, Shahid Beheshti University, Tehran, Iran, (14/01/2016).
7. Sobhan Kazempour, Reza Saffari, Saheb Soroushfar, Study of geodesic in the spacetime of three-dimensional rotating BTZ black holes, National Conference in Gravitation and Cosmology, Shahid Beheshti University, Tehran, Iran, (14/01/2016).
8. Bahare Hoseini, Reza Saffari, Saheb Soroushfar, Geodesic structure of a rotating black hole AdS spacetime in the generalized gravity, National Conference in Gravitation and Cosmology, Shahid Beheshti University, Tehran, Iran, (14/01/2016).
9. Saheb Soroushfar, Reza Saffari, Ehsan sahami, Analytical solution of geodesic equation in the spacetime of an electrically charged GMGHS black hole, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).
10. Afsaneh Jafari, Reza Saffari, Saheb Soroushfar, Study of geodesic motion of test particles in the spacetime of wormholes cosmic string in the vacuum, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).
11. Mojtaba Haghshenas, Reza Saffari, Saheb Soroushfar, Solution of Geodesic in the spacetime of Reissner Nordström black hole in higher dimensions, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).
12. Ehsan Sahami, Reza Saffari, Saheb Soroushfar, Geodesic equation of Magnetically charged GMGHS black hole combined with cosmic string: Analytical solution and Application, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).
13. Elham Abdi, Reza Saffari, Saheb Soroushfar, Analytic solutions of geodesic equation of the static spherically symmetric black hole in conformal gravity in three dimensions, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).
14. Sobhan Kazempour, Reza Saffari, Saheb Soroushfar, Geodesic reveiwes of rotating spherically symmetric black hole in conformal gravity, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).

15. Bahare Hoseini, Reza Saffari, Abbas Darvishpour, Saheb Soroushfar, spherically symmetric black holes in the gauge field theory coupled with conformal gravity, 22th Spring Conference in physics, IPM, Tehran, Iran, (21/05/2015).
16. Afsaneh Jafari, Reza Saffari, Saheb Soroushfar, Analytical solution of geodesic equation in the Space Time of Ellis Wormhole, 18th Meeting of astronomy research in Iran, IASBS, Zanjan, Iran, (15/05/2015).
17. Mojtaba Haghshenas, Reza Saffari, Saheb Soroushfar, Geodesic solution of Schwarzschild black string in higher dimensions, 18th Meeting of astronomy research in Iran, IASBS, Zanjan, Iran, (15/05/2015).
18. Saheb Soroushfar, Reza Saffari, bahare Hoseini, Motion of Test Particle in the Space Time of Black Hole in Conformal Weyl Gravity, 18th Meeting of astronomy research in Iran, IASBS, Zanjan, Iran, (15/05/2015).
19. Sobhan Kazempour, Reza Saffari, Saheb Soroushfar, study of geodesic equation of Ker- de Sitter black hole combined with cosmic string, 18th Meeting of astronomy research in Iran, IASBS, Zanjan, Iran, (15/05/2015).
20. Abbas Darvishpour, Reza Saffari, Saheb Soroushfar, Geodesic solution of black string with cosmological constant, 18th Meeting of astronomy research in Iran, IASBS, Zanjan, Iran, (15/05/2015).
21. Saheb Soroushfar, Reza Saffari, Analytical solution of geodesic equation in the spacetime of a cylindrical shell of straight cosmic string, 8th Conference in Astronomy and Astrophysics, Amirkabir University of Technology, Tehran, Iran, (05/02/2015).
22. Saheb Soroushfar, Reza Saffari, Geodesic equation of a black hole in modified gravity: Analytical solutions and Applications, National Conference in Gravitation and Cosmology, Sharif University of Technology, Tehran, Iran, (22/01/2015).
23. Soroushfar Saheb, Estimates of solar radiation in Kohgiluyeh and Boyerahmad using Angestrom method, optimal strategies of energy sources Conference, Azad University of Dehdash, Dehdasht, Iran, (12 / Dec/2010).
24. Soroushfar Saheb, Asareh Habibolah, Ghari Amir, Estimates of solar radiation in Kohgiluyeh and Boyerahmad, Second National Conference on Astronomy and Astrophysics, Shahid Chamran University of Ahvaz, Iran, (05 / 01/2010).
25. Soroushfar Saheb, Asareh Habibolah, Ghari Amir, A Simple Model for Estimating Global Solar Radiation in Ahwaz, Iran, Annual Iranian Physics Conference, Isfahan, Iran, (15-18 /Aug / 2009).
26. Ghari Amir, Asareh Habibolah, Soroushfar Saheb, Type Ia supernovae as distance indicators, Annual Iranian Physics Conference, Isfahan, Iran, (15-18 /Aug / 2009).

27. Ghari Amir, Asareh Habibolah, Soroushfar Saheb, Measure the distance from I-p Supernovae using the standard candle method, National Conference on Astronomy, Astrophysics and Cosmology, Shiraz University, Shiraz, Iran, (22-23/ April/ (2009).
28. Soroushfar Saheb, Asareh Habibolah, Ghari Amir, Estimation of the total solar radiation using MS method for Khuzestan, Iran. 13th Meeting of Astronomy Research in Iran, IASBS, Zanjan, Iran, (27-28/ Jan/ (2009).
29. Ghari Amir, Asareh Habibolah, Soroushfar Saheb, Quantization of gravitational systems like our solar system, 13th Meeting of Astronomy Research in Iran, IASBS, Zanjan, Iran, (27-28/ Jan/ (2009).

Other Major Activities:

- Executive Secretary of the National Conference on Sustainable Development of Kohgiluyeh and Boyer-Ahmad Province (27 December 2016).
- Certificate of Participation at International School for Young Astronomers (**ISYA**), Held in School of Astronomy, Institute for Research in Fundamental Science (**IPM**), Tehran, 21 August - 8 September (2016).
- Advisor of M.Sc. Thesis:

“Study of space time Geodesic of Rotating Black holes” by Sobhan Kazempour. Feb. 2016.

“Study of space time Geodesic of Charged Black holes” by Ehsan Sahami. Mar. 2016.

“Study of Black hole spacetime combined with cosmic string in higher dimension with spherical symmetry” by Mojtaba Haghshenas. Mar.2016.

“Study of axially symmetric spacetime Geodesic” by Afsaneh Jafari Kiasarayi. Mar.2016.

“Study of Geodesic motion in the spacetime of Rindler Black hole” by Elham Abdi. Mar.2016.

“Study of Schwarzschild (anti) de sitter Black hole combined by cosmic string” by Abbas Darvishpour.

“Study of Cosmic Microwave Background in vicinity of Schwarzschild- (anti) de sitter Black hole” by Reza Mahdavi.

“Study of Thermodynamic properties of Black holes” by Negin Kamvar.

- Refereeing of articles in Research Week in the Payame Noor University of Dehdasht in Dec, 2009.
- Executive Director of Research Week in the Payame Noor University of dehdasht in Dec, 2008.

Computer Skills:

- Mathematica.
- Maple.
- Python.
- L^AT_EX.
- Astronomical packages for data reductions and data analyses.

Award:

Scholarship from the Iranian Ministry of Science, Research and Technology for my PhD

Membership:

- RIAAM (Research Institute for Astronomy & Astrophysics of Maragha).
- Astronomical Society of Iran.
- Physics Society of Iran.
- Young Researchers Club of Iran.
- Scholars and Students Association of Kohgiluyeh and Boyer Ahmad Province, Iran.