

Curriculum Vitae

Personal Data

Surname: Karami
First name: Kayoomars
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Academic Degrees

Sept 1999- March 2004	PhD in Physics	Astronomy and Astrophysics	IASBS, Zanjan, Iran	17.50 (out of 20)
Sept 1997 - Sept 1999	MSc in Physics	Astronomy and Astrophysics	Shiraz University, Shiraz, Iran	17.66 (out of 20)
Sept 1993 - Sept 1997	BSc in Physics	Solid State Physics	Bu Ali Sina University, Hamedan, Iran	17.33 (out of 20)

Honors and Awards

First rank as a BSc graduate at Bu Ali Sina University in Iran in 1997.
First rank as a MSc graduate student at Shiraz University in Iran in 1999.

M. Sc. Thesis Title:

Velocity Curve Analysis of the Eclipsing Binary (RZ Cas)

Supervisor: Prof. Nematollah Riazi

E-mail: Riazi@physics.susc.ac.ir

Ph. D. Thesis Title:

Coronal Heating by Damping of MHD Waves
&

Third Order Effect of Rotation on Stellar Oscillations

Supervisor: Profs. Yousef Sobouti & Jørgen Christensen-Dalsgaard

Advisor: Prof. Sadollah Nasiri

E-mail: Sobouti@iasbs.ac.ir, jcd@phys.au.dk, Nasiri@iasbs.ac.ir

Sabbatical:

1. **Karami, K.**, Christensen-Dalsgaard, J., and Pijpers, F. P., Third order effect of rotation on normal modes of rotating stars. Research project during **Nine months sabbatical period** for completing of Ph. D thesis at Aarhus University, Aarhus, Denmark, 6/May/2002-19/Jan/2003.

Papers Presented in the International Conferences:

1. Sobouti, Y., **Karami, K.**, and Nasiri, S., Flux tube oscillations and coronal heating, **IAU 8th Asia-Pacific Regional Meeting, Tokyo, Japan**, in Ikeuchi S., Hearnshaw J., Hanawa T., eds, ASP Conf. Ser. Vol. 289, Astron. Soc. Pac., San Francisco, v. 289, p.409-412, 2003.

2. **Karami, K.**, Christensen-Dalsgaard, J., Pijpers, F. P., Goupil, M. J., and Dziembowski, W. A., The effect of rotation on stellar oscillations, oral presentation in the **25th General Assembly of IAU**, Sydney, Australia, proceeding book, p. 213, 2003.

Papers Presented in the Domestic Conferences:

1. **Karami, K.**, Nasiri, S., and Sobouti, Y., Coronal heating by the resonance absorption of Alfvén waves, oral presentation in the **5th Research Meeting on Astronomy**, IASBS, abstract book, p. 16, 2001.

2. **Karami, K.**, Nasiri, S., and Sobouti, Y., Alfvén wave propagation in coronal loops, oral presentation in **Annual Physics Conference of Iran**, Teacher Training University of Sabzevar, Sabzevar, Iran, proceeding, P.80, 2001.

3. **Karami, K.**, Nasiri, S., and Sobouti, Y., Coronal heating by the resistive dissipation of Alfvén waves, oral presentation in the **6th Research Meeting on Astronomy**, IASBS, abstract book, p. 26, 2002.

4. Nasiri, S., **Karami, K.**, and Sobouti, Y., Coronal heating by resistive and viscous dissipations of MHD waves, oral presentation in **Annual Physics Conference of Iran**, University of Zanjan, Zanjan, Iran, proceeding, p.122, 2002.

5. **Karami, K.**, and Christensen-Dalsgaard, J., Third order effect of rotation on normal modes of rotating stars, oral presentation in the **7th Research Meeting on Astronomy**, Ferdowsi University of Mashhad, Mashhad, Iran, abstract book, p. 6, 2003.

6. Nasiri, S., **Karami, K.**, and Sobouti, Y., Coronal heating by resistive and viscous dissipations of MHD waves, oral presentation in **Advanced Research Workshop on Astronomy and Astrophysics**, Ferdowsi University of Mashhad, Mashhad, Iran, lecture notes, p. 22, 2003.

7. **Karami, K.**, Christensen-Dalsgaard, J., Pijpers, F. P., Dziembowski, W. A., and Goupil, M. J., Third order effect of rotation on normal modes of rotating stars, oral presentation in **Workshop on analytical studies of stellar oscillations**, University of Tabriz, Tabriz, Iran, abstract book, p. 7, 2003.

8. **Karami, K.**, and Christensen-Dalsgaard, J., Third order effect of rotation on normal modes of a 12 solar mass star, oral presentation in the **8th Research Meeting on Astronomy**, Ferdowsi University of Mashhad, Mashhad, Iran, abstract book, p. 62, 2004.

9. Safari, H., Nasiri, S., **Karami, K.**, and Sobouti, Y., Resonance absorption in a dissipative flux tube, oral presentation in the **9th Research Meeting on Astronomy**, IASBS, abstract book, p. 9, 2005.

10. Teimoorinia, H., and **Karami, K.**, Radial velocity-acceleration curve analysis of the spectroscopic binary systems by the nonlinear regression, oral presentation in the **9th Research Meeting on Astronomy**, IASBS, abstract book, p. 41, 2005.

11. **Karami, K.**, Adiabatic Pulsation Code, oral presentation in the **10th Research Meeting on Astronomy**, IASBS, abstract book, p. 205, 2006.
12. **Karami, K.**, and Mohebi, R., Radial Velocity curve analysis of the spectroscopic binary stars AI Phe, GM Dra, HD 93917 and V502 Oph by the nonlinear regression, poster presentation in the **11th Research Meeting on Astronomy**, Unive. of Imam Khomainsi Ghazvin, proceeding book, p. 28-31, 2007.
13. **Karami, K.**, and Asvar, A., The Effects of Density Stratification on Oscillations and Damping of Standing MHD Quasi Linear Modes in Solar Coronal Loops, oral presentation in the **11th Research Meeting on Astronomy**, Unive. of Imam Khomainsi Ghazvin, proceeding book, p. 60-63, 2007.
14. **Karami, K.**, Study of Seeing Theory in Site Selection of Sanandaj Observatory, poster presentation in the **11th Research Meeting on Astronomy**, Unive. of Imam Khomainsi Ghazvin, proceeding book, p. 128-131, 2007.
15. **Karami, K.**, Study of Meteorological and Seismological Parameters in Site Selection of Sanandaj Observatory, poster presentation in the **11th Research Meeting on Astronomy**, Unive. of Imam Khomainsi Ghazvin, proceeding book, p. 132-135, 2007.
16. **Karami, K.**, and Mohebi, R., Velocity Curve Analysis of the Spectroscopic Binary Stars AB And, NSV 223, HS Herculis and V2082 Cyg by the Non-linear Regression, poster presentation in the **12th Research Meeting on Astronomy**, Unive. of Kurdistan, proceeding book, p. 144-147, 2008.
17. **Karami, K.**, Adjabshirizadeh, A., Esmailzadeh Aghdam, M., Normal p- and g-Modes of a Solar Model, poster presentation in the **12th Research Meeting on Astronomy**, Unive. of Kurdistan, proceeding book, p. 168-172, 2008.
18. **Karami, K.**, and Asvar, A., The effects of density stratification on standing fast body oscillations in coronal loops and dissipation, poster presentation in the **12th Research Meeting on Astronomy**, Unive. of Kurdistan, proceeding book, p. 104-107, 2008.
19. **Karami, K.**, Nasiri, S., and Amiri, S., The effect of density stratification on the resonant absorption of MHD waves in coronal loops, oral presentation in the **13th Research Meeting on Astronomy**, IASBS, proceeding book, p. 113-116, 2009.
20. **Karami, K.**, and Ebrahimi, Z., Damping of Standing Shear Alfven waves by the Phase Mixing, poster presentation in the **13th Research Meeting on Astronomy**, IASBS, proceeding book, p. 243-246, 2009.
21. **Karami, K.**, Ghaderi, K., Mohebi, R., Sadeghi, R., and Soltanzadeh, M.M., Velocity Curve Analysis of the Spectroscopic Binary Stars AB And, NSV 223, HS Her and V2082 Cyg by the Artificial Neural Networks, poster presentation in the **13th Research Meeting on Astronomy**, IASBS, proceeding book, p. 247-250, 2009.
22. **Karami, K.**, and Barin, M., The effects of twisted magnetic field on coronal loops oscillations and dissipation, oral presentation in the **National Meeting on Astronomy, Astrophysics and Cosmology**, Unive. of Shiraz, 2009.
23. **Karami, K.**, Ghaderi, K., Mohebi, R., Sadeghi, R., and Soltanzadeh, M.M., Velocity Curve Analysis of the Spectroscopic Binary Stars V918 Her, AI Phe, GM Dra and CC Cas by the Artificial Neural Networks, poster presentation in the **National Meeting on Astronomy, Astrophysics and Cosmology**, Unive. of Shiraz, proceeding book, p. 42-46, 2009.
24. **Karami, K.**, and Asvar, A., The effects of longitudinal density stratification on oscillations and damping of MHD waves in coronal loops, poster presentation in the **National Meeting on Astronomy, Astrophysics and Cosmology**, Unive. of Shiraz, proceeding book, p. 151-155, 2009.
25. **Karami, K.**, and Soltanzadeh, M.M., Third Order Effect of Rotation on Stellar Oscillations of Upper Main Sequence Stars, oral presentation in the **International Tusi Conference on Astrophysics**, RIAAM, proceeding book, p. 34, 2009.

26. **Karami, K.**, and Soltanzadeh, M.M., Application of an Artificial Neural Network for Velocity Curve Analysis of the Spectroscopic Binary Stars V373 Cas, V2388 Oph, V401 Cyg, V523 Cas, and HD 141929, poster presentation in the **International Tusi Conference on Astrophysics**, RIAAM, proceeding book, p. 53, 2009.
27. **Karami, K.**, and Bahari, K., The effect of twisted magnetic field on the resonant absorption of MHD waves in coronal loops, poster presentation in the **International Tusi Conference on Astrophysics**, RIAAM, proceeding book, p. 78, 2009.
28. **Karami, K.**, and Bahari, K., The effect of resonant absorption in twisted magnetized loops, oral presentation in the **2nd Astronomy and Astrophysics Conference**, Shahid Chamran Unive. of Ahvaz, proceeding book, p. 41-45, 2009.
29. **Karami, K.**, Khaledian, M.S., Felegary, F., and Azarmi, Z., Correspondence between new agegraphic dark energy model and scalar field models in non-flat universe, poster presentation in the **2nd Astronomy & Astrophysics Conference**, Shahid Chamran Unive. of Ahvaz, proceeding book, p. 172-175, 2009.
30. **Karami, K.**, Bahari, K., and Nasiri, S., The effect of twisted magnetic annulus on the period ratio P_1/P_2 of kink MHD waves, oral presentation in the **14th Research Meeting on Astronomy**, IASBS, proceeding book, p. 94-97, 2010.
31. **Karami, K.**, Ghaffari, S., and Soltanzadeh, M.M., The generalized second law in irreversible thermodynamics for the interacting dark energy in a non-flat FRW universe enclosed by the apparent horizon, oral presentation in the **14th Research Meeting on Astronomy**, IASBS, proceeding book, p. 98-100, 2010.
32. **Karami, K.**, Sheykhi, A., Jamil, M., Felegary, F., and Soltanzadeh, M.M., Thermodynamics of interacting entropy-corrected new agegraphic dark energy, poster presentation in the **14th Research Meeting on Astronomy**, IASBS, proceeding book, p. 101-103, 2010.

List of Publications in ISI Journals:

1. **Karami, K.**, Nasiri, N., and Sobouti, Y., Normal modes of magnetic flux tubes and dissipation, **Astronomy & Astrophysics (A&A)**, **396**, 993, 2002.
2. Safari, H., Nasiri, S., **Karami, K.**, and Sobouti, Y., Resonant absorption in dissipative flux tubes, **Astronomy & Astrophysics (A&A)**, **448**, 375, 2006 [[arXiv:astro-ph/0506141](#)].
3. **Karami, K.**, and Teimoorinia, H., Velocity curve analysis of the spectroscopic binary stars by the non-linear least squares, **Astrophysics and Space Science (Ap&SS)**, **311**, 435, 2007 [[arXiv:astro-ph/0502184](#)].
4. **Karami, K.**, and Asvar, A., The effects of density stratification on standing fast body oscillations in coronal loops and dissipation, **Monthly Notices of the Royal Astronomical Society (MNRAS)**, **381**, 97, 2007.
5. **Karami, K.**, and Mohebi, R., Velocity Curve Analysis of Spectroscopic Binary Stars AI Phe, GM Dra, HD 93917 and V502 Oph by Nonlinear Regression, **Chinese Journal of Astronomy & Astrophysics (ChJAA)**, **7**, 558, 2007.
6. **Karami, K.**, and Mohebi, R., Velocity curve analysis of the spectroscopic binary stars PV Pup, HD 141929, EE Cet and V921 Her by the nonlinear regression, **Journal of Astrophysics & Astronomy (JApA)**, **28**, 217, 2007.
7. **Karami, K.**, Third Order Effect of Rotation on Stellar Oscillations of a B Star, **Chinese Journal of Astronomy & Astrophysics (ChJAA)**, **8**, 285, 2008 [[arXiv:astro-ph/0502194](#)].

8. **Karami, K.**, Mohebi, R., and Soltanzadeh, M. M., Application of a New Non-Linear Least Squares Velocity Curve Analysis Technique for Spectroscopic Binary Stars, **Astrophysics and Space Science (Ap&SS)**, **318**, 69, 2008 [[arXiv:0809.1175](#)].
9. **Karami, K.**, Third Order Effect of Rotation on Stellar Oscillations of a β -Cephei Star, **Astrophysics and Space Science (Ap&SS)**, **319**, 37, 2009 [[arXiv:0810.5092](#)].
10. **Karami, K.**, and Barin, M., The effects of twisted magnetic field on coronal loops oscillations and dissipation, **Monthly Notices of the Royal Astronomical Society (MNRAS)**, **394**, 521, 2009 [[arXiv:0809.4611](#)].
11. **Karami, K.**, Nasiri, S., and Amiri, S., The effect of density stratification on the resonant absorption of MHD waves in coronal loops, **Monthly Notices of the Royal Astronomical Society (MNRAS)**, **394**, 1973, 2009.
12. **Karami, K.**, Ghaderi, K., Mohebi, R., Sadeghi, R., and Soltanzadeh, M.M., Velocity Curve Analysis of the Spectroscopic Binary Stars RZ Cas, CC Cas, HS Her, HD 93917, V921 Her and Y Cygni by the Artificial Neural Networks, **Astronomische Nachrichten (Astron. Nachr.)**, **330**, 836, 2009.
13. **Karami, K.**, Ghaderi, K., Mohebi, R., Sadeghi, R., and Soltanzadeh, M.M., Velocity Curve Analysis of the Spectroscopic Binary Stars V2082 Cyg, V918 Her, BW Dra, V2357 Oph, YZ Cas and V380 Cygni by the Artificial Neural Networks, **New Astronomy (NA)**, **14**, 478, 2009.
14. **Karami, K.**, Ghaderi, K., Mohebi, R., Sadeghi, R., and Soltanzadeh, M.M., Velocity Curve Analysis of the Spectroscopic Binary Stars V373 Cas, V2388 Oph, V401 Cyg, GM Dra, V523 Cas, AB And, and HD 141929 by Artificial Neural Networks, **Publications of the Astronomical Society of Australia (PASA)**, **26**, 121, 2009 [[arXiv:0907.4411](#)].
15. Sadeghi, R., Goodarzi, B., and **Karami, K.**, Effect of Potassium Citrate Salts on the Transport Behavior of l-Alanine in Aqueous Solutions at T = (293.15 to 308.15) K, **Journal of Chemical & Engineering Data (J. Chem. Eng. Data)**, **54**, 791, 2009.
16. **Karami, K.**, and Ebrahimi, Z., Phase-Mixing and Dissipation of Standing Shear Alfvén Waves, **Publications of the Astronomical Society of Australia (PASA)**, **26**, 448, 2009 [[arXiv:0911.4901](#)].
17. **Karami, K.**, Ghaffari, S., and Fehri, J., Interacting polytropic gas model of phantom dark energy in non-flat universe, **European Physical Journal C (EPJC)**, **64**, 85, 2009 [[arXiv:0911.4915](#)].
18. **Karami, K.**, and Mohebi, R., Velocity Curve Studies of Spectroscopic Binary Stars V380 Cygni, V401 Cyg, V523 Cas, V373 Cas and V2388 Oph, **Journal of Astrophysics & Astronomy (JApA)**, **30**, 153, 2009.
19. **Karami, K.**, and Mohebi, R., Velocity Curve Analysis of Spectroscopic Binary Stars EQ Tau, V376 And, V776 Cas, V2377 Oph and V380 Cygni by Nonlinear Regression, **Iranian Journal of Physics Research (IJPR)**, **9**, 61, 2009.
20. **Karami, K.**, Comment on “Interacting holographic dark energy model and generalized second law of thermodynamics in a non-flat universe”, by M.R. Setare (JCAP 01 (2007) 023), **J. Cosmol. Astropart. Phys. (JCAP)**, **01**, 015, 2010 [[arXiv:0911.4808](#)].
21. **Karami, K.**, and Fehri, J., New holographic scalar fields models of dark energy in non-flat universe, **Physics Letters B (Phys. Lett. B)**, **684**, 61, 2010 [[arXiv:0912.1541](#)].
22. **Karami, K.**, and Ghaffari, S., The generalized second law in irreversible thermodynamics for the interacting dark energy in a non-flat FRW universe enclosed by the apparent horizon, **Physics Letters B (Phys. Lett. B)**, **685**, 115, 2010 [[arXiv:0912.0363](#)].
23. **Karami, K.**, Khaledian, M.S., Felegary, F., and Azarmi, Z., Interacting new agegraphic tachyon, K-essence and dilaton scalar field models of dark energy in non-flat universe, **Physics Letters B (Phys. Lett. B)**, **686**, 216, 2010 [[arXiv:0912.1536](#)].

24. **Karami, K.**, and Ghaffari, S., The generalized second law of thermodynamics for the interacting polytropic dark energy in non-flat FRW universe enclosed by the apparent horizon, **Physics Letters B (Phys. Lett. B)**, **688**, 125 (2010).
25. **Karami, K.**, and Fehri, J., Holographic Dark Energy in a Non-flat Universe with Granda-Oliveros Cut-off, **Int. J. Theor. Phys. (IJTP)**, **49**, 1118, 2010 [[arXiv:0911.4932](#)].
26. **Karami, K.**, and Abdolmaleki, A., Reconstructing interacting holographic polytropic gas model in non-flat FRW universe, **Physica Scripta (Phys. Scr.)**, **81**, 055901, 2010.
27. **Karami, K.**, and Abdolmaleki, A., Reconstructing interacting new agegraphic polytropic gas model in non-flat FRW universe, **Astrophysics and Space Science (Ap&SS)**, 2010 (in press).
28. **Karami, K.**, and Bahari, K., The Effect of Twisted Magnetic Field on the Resonant Absorption of MHD Waves in Coronal Loops, **Solar Physics (Sol. Phys.)**, **263**, 87, 2010.
29. **Karami, K.**, and Bahari, K., The effect of twisted magnetic annulus on the period ratio P_1/P_2 of kink MHD waves, submitted to the **Publications of the Astronomical Society of Australia (PASA)**, 2010 [[arXiv:0911.4664](#)].
30. **Karami, K.**, and Abdolmaleki, A., The generalized second law for the interacting new agegraphic dark energy in a non-flat FRW universe enclosed by the apparent horizon, submitted to **Physica Scripta (Phys. Scr.)**, 2010 [[arXiv:0909.2427](#)].
31. **Karami, K.**, Ghaffari, S., and Soltanzadeh, M.M., The generalized second law for the interacting generalized Chaplygin gas model in non-flat universe enclosed by the apparent horizon, submitted to the **Astrophysics and Space Science (Ap&SS)**, 2010.
32. **Karami, K.**, and Ghaffari, S., The generalized second law of gravitational thermodynamics on the apparent and event horizons in FRW cosmology, submitted to the **Classical and Quantum Gravity (Class. Quantum Grav.)**, 2010.
33. **Karami, K.**, Soltanzadeh, M.M., Ghaderi, K., and Mohebi, R., Application of a probabilistic neural network in velocity curve analysis of the spectroscopic binary stars PV Pup, BV Dra, AI Phe, V1130 Tau, NSV 223 and V502 Oph, submitted to the **Research in Astronomy and Astrophysics (RAA)**, 2010.
34. **Karami, K.**, Jamil, M., and Sahraei, N., Irreversible thermodynamics of dark energy on entropy-corrected apparent horizon, submitted to **Commun. Theor. Phys.**, 2010 [[arXiv:1003.1890](#)].
35. **Karami, K.**, Khaledian, M.S., and Jamil, M., Reconstructing interacting entropy-corrected holographic scalar field models of dark energy in non-flat universe, submitted to the **Physics Letters B (Phys. Lett. B)**, 2010.
36. **Karami, K.**, and Sorouri, A., Interacting entropy-corrected new agegraphic dark energy in non-flat universe, submitted to the **Physica Scripta (Phys. Scr.)**, 2010 [[arXiv:1003.2365](#)].

Undergraduate Project Supervision

- 1- **Sadegh Khorshidi**, 2005, Study of Important Meteorological Parameters in Site Selection of Sanandaj Observatory.
- 2- **Mehdi Hemmati**, 2005, Study of Seeing Theory in Site Selection of the Optical Observatory.
- 3- **Amir Pirouzi**, 2005, Relativistic Electrodynamics.
- 4- **Narjes Shakeri**, 2005, Different Steps for Making of a 6 Inches Newtonian Telescope.
- 5- **Soude Afsharyan**, 2006, Study of Seismic Waves.

- 6- **Shayeste Ghafari**, 2006, Study of Tunneling Phenomena in Quantum Mechanics.
- 7- **Soroush Najafyan**, 2006, Calculation of Lunar and Solar Eclipses in Astronomy.
- 8- **Abdolbaset Nouri**, 2006, Study of Three Body Problem.
- 9- **Alireza Kazemi**, 2006, Using the Meteorological Parameters to Calculate the Seeing Parameter in Site Selection.
- 10- **Parvin Karimi**, 2008, Artificial Neural Networks (ANNs).
- 11- **Sonbol Ardalan**, 2008, Measuring of Seeing Parameter in Site Selection of Sanandaj Observatory.
- 12- **Elham Ahookhash**, 2008, Virtual Observatory.
- 13- **Fowad Manoochehri**, 2008, Study of Solar System.
- 14- **Amin Imani**, 2009, Study of Scaling Laws in Nature.
- 15- **Hamid Reza Kazeminezhad**, 2009, Stellar Orientation of Pyramids and Temple of Great Korosh.

Postgraduate Thesis Supervision

M.Sc. Students:

- 1- **Adel Asvar**, 2006, The Effect of Longitudinal Density Stratification on Oscillations and Damping of MHD Waves in Solar Coronal Loops, University of Kurdistan, Sanandaj, Iran.
- 2- **Rozita Mohebi**, 2006, Velocity Curve Analysis of the Spectroscopic Binary Stars, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran.
- 3- **Sirwan Amiri**, 2008, Modal Structure of Magnetic Flux Tube with Variable Density Profile, Zanjan University, Zanjan, Iran.
- 4- **Mohammad Esmaelzadeh Aghdam**, 2008, g-Mode Oscillation and the within Stability of the Sun, Tabriz University, Tabriz, Iran.
- 5- **Marjan Barin**, 2008, The effects of non-uniform magnetic field on coronal loop oscillations and dissipation, University of Kurdistan, Sanandaj, Iran.
- 6- **Kamal Ghaderi**, 2009, Application of Artificial Neural Networks in Linear & Non-linear Systems, University of Kurdistan, Sanandaj, Iran.
- 7- **Zanyar Ebrahimi**, 2009, Coronal Heating by The Phase Mixing of Alfven Waves, University of Kurdistan, Sanandaj, Iran.
- 8- **Jamile Fehri**, 2010, Study of Holographic Dark Energy Model of Accelerating Universe, University of Kurdistan, Sanandaj, Iran.
- 9- **Shayeste Ghafari**, 2010, Study of Chaplygin Gas Dark Energy Model of Accelerating Universe, University of Kurdistan, Sanandaj, Iran.
- 10- **Fereshte Felegary**, 2010-present, The study of tachyon scalar field model in Einstein gravity, University of Kurdistan, Sanandaj, Iran.
- 11- **Zohre Azarmi**, 2010-present, The study of agegraphic dark energy models in Einstein gravity, University of Kurdistan, Sanandaj, Iran.
- 12- **Neda Sahraei**, 2010-present, The study of thermodynamics of the accelerating universe with dark energy in Einstein gravity, University of Kurdistan, Sanandaj, Iran.

Ph.D. Students:

- 1- **Mohammad Saied Khaledian**, 2008-present, University of Kurdistan, Sanandaj, Iran.
- 2- **Karam Bahari**, 2008-present, IASBS, Zanjan, Iran.
- 3- **Asrin Abdolmaleki**, 2010-present, University of Kurdistan, Sanandaj, Iran.

Teaching

For B. Sc. Students:

- 1- Basic Physics 1,2,3
- 2- Mathematics of Physics 2
- 3- Analytical Mechanics 1,2
- 4- Quantum Mechanics 1,2
- 5- Electromagnetic 1,2
- 6- Introductory Astronomy
- 7- Waves

For M. Sc. Students:

- 1- Advanced Astronomy and Astrophysics 1,2
- 2- Advanced Thermodynamics and Statistical Mechanics
- 3- Advanced Classical Mechanics
- 4- Computational Physics

For Ph. D. Students:

- 1- Gravitation and General Relativity 1,2
- 2- Cosmology 1,2

Research Interests

Astronomy

- Velocity Curve Analysis of the Spectroscopic Binary Stars by the Non-Linear Least Squares
- Velocity Curve Analysis of the Spectroscopic Binary Stars by the Artificial Neural Networks (ANNs)

Astrophysics

- Helio-, Astro-, and Coronal Seismology
- Magnetohydrodynamics (MHD) Waves
- Heating of Coronal Loops by the Resonance Absorption & Phase Mixing
- The Effects of Density Stratification on Coronal Loops Oscillations and Dissipation
- The Effects of Twisted Magnetic Fields on Coronal Loops Oscillations and Dissipation
- Third Order Effect of Rotation on Stellar Oscillations

Cosmology

- Dark Energy, Dark Matter and f(R) Gravity

Computer Skills

Fortran77 and 90, SAS (Statistical Analysis System), Maple, Mathematica, and Matlab.

Languages

Kurdish (Native Language)
Persian (Iranian Formal Language)
English (Spoken, Written)

Referee

I am referee of the:

- 1- European Physical Journal C
- 2- International Journal of Theoretical Physics
- 3- International Journal of Fluid Mechanics
- 4- Iranian Journal of Physics Research
- 5- Iranian Annual Research Meeting on Astronomy
- 6- Journal of Damghan University of Basic Sciences (JDUBS)
- 7- International Journal of Sciences Islamic Republic of Iran (University of Tehran)

Positions

1- Non-Residence Researcher at:

- 1-1- Institute for Advanced Studies in Basic Sciences (IASBS), Iran (2004-2008).
- 1-2- Institute for Studies in Theoretical Physics and Mathematics (IPM), (2005-2006).
- 1-3- Research Institute for Astronomy & Astrophysics of Maragha (RIAAM), Iran (2004-present).
- 2- Member of the Astronomical Society of Iran, (2005-present).
- 3- Member of the Physical Society of Iran, (2006-present).
- 4- Member of the Research Committee at University of Kurdistan, Sanandaj, Iran, (2006-2009).
- 5- Chairman of Physics Group, University of Kurdistan, Sanandaj, Iran, (2007-2009).

Present Address

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