

Curriculum Vitae

First Name: **Zanyar**
Last Name: **Ebrahimi**
Date of Birth: 1982
Gender: Male
Nationality: Iranian



Academic Degrees:

	Field of Study	Location	Start/End Date
BSc in Physics	Solid State Physics	University of Urmia, Iran	September 2000, February 2005
MSc in Physics	Astronomy & Astrophysics	University of Kurdistan, Iran	September 2006, March 2009
PhD in Physics	Astronomy & Astrophysics	University of Kurdistan, Iran	September 2012, September 2017

MSc Thesis:

Title: Coronal Heating by the Phase Mixing of Alfvén Waves
Supervisor: Prof. Kayoomars Karami (kkarami@uok.ac.ir)

PhD Thesis:

Title: Study of Oscillations and Damping of Magnetohydrodynamic waves in Solar Coronal loops
Supervisor: Prof. Kayoomars Karami (kkarami@uok.ac.ir)

List of Publications:

1. Karami K., and **Ebrahimi Z.**, Phase-Mixing and Dissipation of Standing Shear Alfvén Waves, Publications of Astronomical Society of Australia (**PASA**), 2009, 26, 448.
2. Karami K., Amiri S., Bahari K., and **Ebrahimi Z.**, Resonantly damped oscillations of elliptically shaped stratified emerging coronal loops, **Ap&SS**, 2013, 347, 29.
3. **Ebrahimi Z.**, and Karami K., Resonant absorption of kink magnetohydrodynamic waves by a magnetic twist in coronal loops, **MNRAS**, 2016, 462, 1002.
4. **Ebrahimi Z.**, Karami K., & Soler R., The Effect of a Twisted Magnetic Field on the Phase Mixing of the Kink Magnetohydrodynamic Waves in Coronal Loops, 2017, **ApJ**, 845, 86.
5. **Ebrahimi Z.**, Bahari K., Resonant absorption of kink oscillations in coronal flux tubes with continuous magnetic twist, **MNRAS**, 2019, 490, 1644.
6. **Ebrahimi Z.**, Soler R., & Karami K., Phase Mixing of Kink MHD Waves in the Solar Corona: Viscous Dissipation and Heating, 2020, **ApJ**, 893, 157.

7. Bahari K., & **Ebrahimi Z.**, The Nature of Kink MHD Waves in the Solar Corona: Magnetic Twist and Phase Mixing, 2020, **MNRAS**, 497, 1135.

Papers Presented in the Domestic Conferences:

1. Karami, K. and **Ebrahimi, Z.**, *Damping of Standing Shear Alfvén waves by the Phase Mixing*, Poster Presentation, 2009, Proc. 13'th Meeting on Research in Astronomy (IASBS, Zanjan), 243.
2. **Ebrahimi Z.**, & Karami K., *Resonant absorption of kink MHD waves by magnetic twist in coronal loops*, 2015, Oral Presentation, Proc. 8'th National Meeting in Astronomy and Astrophysics (Amir Kabir University, Tehran), 79.
3. **Ebrahimi Z.**, & Karami K., *Resonant absorption of kink MHD waves by magnetic twist in coronal loops*, 2016, Oral Presentation, Proc. 19'th Meeting on Research in Astronomy (IASBS, Zanjan), 15.
4. **Ebrahimi Z.**, Karami K., & Soler R., *The effect of twisted magnetic field on the phase mixing of the kink magnetohydrodynamic waves in coronal loops*, 2017, Poster Presentation, Proc. 20'th Meeting on Research in Astronomy (IASBS, Zanjan), 59.
5. **Ebrahimi Z.**, Bahari K., *Resonant absorption of kink magnetohydrodynamic waves in solar coronal flux tubes with a continuous and twisted magnetic field*, 2019, Poster Presentation, Proc. 22'th Meeting on Research in Astronomy (IASBS, Zanjan), 34.
6. **Ebrahimi Z.**, Karami K., & Soler R., *The effect of viscosity on the kink magnetohydrodynamic waves in coronal flux tubes*, 2020, Oral Presentation, Proc. 13'th National Meeting in Astronomy and Astrophysics (University of Kurdistan, Sanandaj), 65-68.

Teaching:

Basic Physics (Mechanics, Electromagnetism, Thermodynamics)
Thermodynamics
Introductory Astronomy
Advanced Astrophysics
Physics of the Sun
Physics of Plasmas
Advanced Computational Physics

Research Interests:

Magnetohydrodynamics
Sun: Coronal Loop Oscillations
Sun: Coronal Heating
Sun: Magnetic Fields
Numerical MHD Simulation

Computer Skills:

Microsoft Office Matlab Mathematica Maple TableCurve IDL
Programing: Fortran, C, C++, C#, Visual Basic, Python
Website development: ASP.net, Html, Java, SQL Server, CSS

Honors and Awards:

Selected as exceptional talent in University of Kurdistan, 2014-2015.

Language:

Kurdish (vernacular)
Persian (Iranian formal language)

English (International)

Contact:

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