



Curriculum Vitae

Personal Information

- **Name:** Hossein
- **Surname:** Ebadi
- **Nationality:** Iranian
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- **Associated professor in Astrophysics**
- **The head of the Research Institute for Astronomy and Astrophysics of Maragheh (RIAAM)**

Educational Background

1380-1386	<p>Ph.D. Astrophysics Department of Astrophysics, University of Tabriz, Tabriz, Iran. Ph.D. Thesis: "The study of fine structures in solar quiescent prominences". Supervisor: Prof. Ali Ajabshirizadeh and Prof. Jean Clude Vial. GPA: 17.73 out of 20</p>
1377-1380	<p>M. Sc. Astrophysics Department of Astrophysics, University of Tabriz, Tabriz, Iran. M. Sc. Thesis: "Morphology of umbral dots in sunspots". Supervisor: Dr Ali Ajabshirizadeh. GPA: 17.25 out of 20</p>
1373-1377	<p>B.Sc. Physics Department of physics, University of Tabriz, Tabriz, Iran. GPA: 16.85 out of 20</p>
1369-1373	<p>High School Education High School of Shahid Seyedzadeh, Marand, Iran. GPA: 18.90 out of 20</p>

Research Interests

- Oscillations in solar spicules
- Fine structures in solar events
- Umbral dots in sunspots
- Solar radiative transfer

Teaching Experiences:	
1377-1390	<ul style="list-style-type: none"> • “Fundamental of Physics” (Vol I) D.Halliday, R. Resnick & J. Walker. University of Tabriz, Iran. • “Fundamental of Physics” (Vol II) D.Halliday, R. Resnick & J. Walker. University of Tabriz, Iran. • “Fundamental of Physics” (Vol III) D.Halliday, R. Resnick & J. Walker. University of Tabriz, Iran. • “Mathematical methods for physicists 1” G. Arfken, University of Tabriz, Iran. • “Mathematical methods for physicists 2” G. Arfken, University of Tabriz, Iran. • “Astrophysics” G. Abell, University of Tabriz, Iran. • “Structure and evolution of stars” Le Blanc, F., University of Tabriz, Iran. • “Stellar Atmosphere”, D. Mihalas, University of Tabriz, Iran. • “The physics of the solar corona” M. Aschwanden, University of Tabriz, Iran. • “Stellar pulsation”, C. Dalsgard, University of Tabriz, Iran. • “Physics of the sun”, Stix, University of Tabriz, Iran. • “Fundamental Astronomy”, Smart, University Of Tabriz, Iran.
Computer Skills	
Languages and tools	MATLAB, IDL, Maple, Mathematica, Fortran, Photoshop, Origin, Sigma plot.
Utilities	MS Office (Word, Excel and PowerPoint), Windows Platforms.
Packages	SSW, TMC, Athena3d
Language Proficiency	
<ul style="list-style-type: none"> • English: Professional Proficiency • Turkish: Mother tongue • Persian: Native 	
Publications	
	<ol style="list-style-type: none"> 1) “The behavior of magnetic Prandtl number on the Rossby wave instability in the protoplanetary discs”, Astrophysics and Space Science, 2017, 362, 124. 2) “The study of umbral dots in sunspots based on SOT/Hinode observations”, Astronomische Nachrichten, 2017, 338, 662. 3) “The first photometric study of semi-detached eclipsing binary V504 Cyg”, New Astronomy, 2017, 50, 25. 4) “The first photometric study of W UMA eclipsing binary OQ Dra”, New Astronomy, 2016, 49, 28. 5) “The period ratio P1/P2 of torsional Alfvén waves with steady flows in spicules”, Astrophysics and Space Science, 2016, 361, 146. 6) “Thermodynamical Description of Modified Generalized Chaplygin Gas Model of Dark Energy”, International Journal of Theoretical Physics, 2016, 55, 1612. 7) “Thermodynamics of universe with a varying dark energy component”, International Journal of Modern Physics D, 2015, 24, 14. 8) “Thermodynamic behavior and stability of Polytropic gas”, International Journal of Modern Physics D, 2016, 25, 1. 9) “Seismology of solar spicules based on Hinode/SOT observations”, Iranian Journal of Astronomy and Astrophysics, 2015, 2, 1. 10) “The possibility of Kelvin-Helmholtz instability in solar spicules”, Astrophysics and Space Science, 2015, 357, 33. 11) “The study of magnetic reconnection in solar spicules”, Astrophysics and Space Science, 2014, 353, 47. 12) “Observation of kink waves and their reconnection-like origin in solar spicules”, Astrophysics and Space Science, 2014, 353, 31. 13) “Torsional Alfvén waves and the period ratio P 1/ P 2 in spicules”, Astrophysics and Space Science, 2014, 353, 25. 14) “Observation of the period ratio P 1/ P 2 of transversal oscillations in solar macro-spicules”, Astrophysics and Space Science, 2014, 352, 353.

- 15) "Non-linear damping of visco-resistive Alfvén waves in solar spicules", Astrophysics and Space Science, 2014, 350, 57.
- 16) "Evidences to the pulse like origin of double spicules based on Hinode/SOT observations", Astrophysics and Space Science, 2013, 348, 11.
- 17) "On the role of transition region on the Alfvén wave phase mixing in solar spicules", Astrophysics and Space Science, 2013, 346, 319.
- 18) "Transverse oscillations in solar spicules induced by propagating Alfvénic pulses", Astrophysics and Space Science, 2013, 345, 225.
- 19) "Phase mixing of standing Alfvén waves with shear flows in solar spicules", Astrophysics and Space Science, 2013, 343, 11.
- 20) Phase mixing of propagating Alfvén waves in a stratified atmosphere: Solar spicules, Astrophysics and Space Science, 2012, 340, 9.
- 21) "Observation of standing kink waves in solar spicules", Astrophysics and Space Science, 2012, 337, 33.
- 22) "Wave Propagation in Solar Spicules", Space plasma workshop in kitten, Bulgaia, 2011.
- 23) "The He II Lines in the Lyman Series Profiles of Solar Prominences", Solar physics, 2009, 257, 91.
- 24) "Radiative Transfer in fine structures of Solar Quiescent Prominences", Scientia Iranica, 2009, 16, 212.
- 25) "The Lyman alpha and beta profiles in solar prominences and prominence fine structure", Solar physics, 2007, 246, 327.
- 26) "Radiative Transfer in fine structures of solar prominences", Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 103, 351.
- 27) "On the fine structures in solar prominences", Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 127.

Conference Presentations

- 1) "Wave Propagation in Solar Spicules", Space plasma workshop in kitten, Bulgaia, 2011.
- 2) "The HeII (and DI) Lines in the Lyman Series of Solar Prominences", ESPM, 2008, 12.2.20.
- 3) "The Reversal Behavior of Some Hydrogen Lyman Lines in Solar Spicules", COSPAR, 2008, 37, 42.
- 4) "Radiative Transfer in Prominence Fine Structure as a Multi-Component Atmosphere", ASPC, 2007, 368, 307.
- 5) "The Effect of Parallel Implementation on the Speedup of Numerical Calculations of Partial Derivatives in Cartesian Coordinates", Applied mathematics in engineering, management and technology, 2014/8/9.
- 6) "Application of Graphical Processors in Astronomy and Astrophysics", 4th international conference on information technology ..., 27 June 2014, Tehran, Iran.

حسین عبادی، نوسانات سیخکهای خورشیدی و میرایی آنها، هفدهمین گردهمایی پژوهشی نجوم ایران، ۹۲/۲/۲۶، زنجان،

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امیر عباس اسلامی و حسین عبادی، تحریک امواج آلفون توسط اصل مجدد مغناطیسی و تشکیل اسپیکولها، هفدهمین

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مریم قیاسی و حسین عبادی، مطالعه نحوه تشکیل اسپیکولهای خورشیدی از طریق تصاویر تلسکوپ هینوده، هفدهمین

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حامد اطافی مهربانی، حسین عبادی و حسین صفری، بررسی اثر اختلاط فازی امواج آلفون در اسپیکولهای خورشیدی،

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حسین عبادی، شواهد رصدی برای ریشه پالس گونه سیخکهای خورشیدی، چهاردهمین گردهمایی پژوهشی نجوم ایران،

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