

Curriculum Vitae

Personal Data:

Name: Aziz

Surname: Khodadadi Pirehyousefan

Date of birth: 6 August, 1974, Mashhad, Iran.

Gender: Male

Marital status: Married

Address: Floor 3, Kouhpaye 4 Avenue, Tarbiyat Morabi Boulevard, Karaj, Iran.

Postal code: 3149798909

Phone: +982632546726

Mobile: +989126766177

E-mail: aziz.khodadadi@iasbs.ac.ir

Educational Background: (Last One First)

1) PhD.

Astrophysics Group, Department of Physics, Instituted for Advanced Studies In Basic Science (IASBS), Zanjan, Iran. September 2019. *Field of Specialization:* Astrophysics and Cosmology

2) M. Sc.

Astrophysics and Theoretical physics Group, Department of Physics, Tabriz University, Tabriz, Iran. September 2002. *Field of Specialization:* Astrophysics

3) B. Sc.

Physics Group, Department of Science, Kurdistan University, Sanandaj, Iran. August 1999. *Field of Specialization:* Secretary of Physics

Title of PhD Thesis:

Testing the concordance standard cosmological model (Λ CDM) using galactic rotation curves.

Title of M.Sc Thesis:

Determination of the physical parameters of close binary system CN And.

Research and Publications:

- 1) Aziz Khodadadi, Hosein Haghi, and Pavel Kroupa, **Modified dark halos and galaxy Rotation curves**. Accepted in MNRAS (2021).
- 2) Hosein Haghi, Aziz Khodadadi, Amir Ghari, Akram Hasani Zonoozi and Pavel Kroupa, **Rotation curves of galaxies and the stellar mass-to-light ratio**. MNRAS 477, 4187–4199 (2018).
- 3) D. M. Z Jassur & A. Khodadadi, **Photometric modeling of close binary star CN And**. J. Astrophys. Astr. 27, 47-56 (2006).
- 4) Fatemeh Azizi & Aziz Khodadadi, **Variable stars-Pulsating variables**, Iranian Space Agency, Space National Journal, No.38, March 2008.
- 5) Mohammad Reza Mobaraki, Hiwa Ahmadiania & Aziz Khodadadi, **Studying Ray Optics with a Smartphone**. National Physics Education, No 128, Spring 2021.
- 6) Faranak Lahoorpour, Mozhddeh Pourmohammad, Mehrnoosh Badamian & Aziz Khodadadi, **Electric Circuits as Seen by Thermal Imaging Cameras**. National Physics Education, No 127, Winter 2021.
- 7) Farah Moradkhani & Aziz khodadadi. **Most Important Questions on Physics in the New Millennium**. National Physics Education, No 4, Summer 2007.

Conferences:

- 1) Aziz Khodadadi, **Rotation curves of galaxies and the stellar mass-to-light ratio**. International Conference “Baryons in Galaxies and Beyond”, School of Astronomy, Institute for research in Fundamental Sciences (IPM), Tehran, Iran, 17-19 February 2019. (Poster)
- 2) Aziz Khodadadi, **Modified Dark Halos and Galaxy Rotation Curves**. 23th Meeting on research astronomy, Instituted for Advanced Studies In Basic Science (IASBS), Zanjan, Iran, 8-9 may 2020. (Poster)
- 3) Aziz Khodadadi, **Failure of the NFW profile to describe the rotation curves of galaxies**. 19th Meeting on research astronomy, Instituted for Advanced Studies In Basic Science (IASBS), Zanjan, Iran, 12-13 may 2016. (Poster)
- 4) Fatemeh Azizi & Aziz Khodadadi, **The study of period variation on eclipsing close binary star CN Andromedae and its causes**. 4th Payame Noor University Annual Physics Conference of Iran, Isfahan, Iran. November 5 –6th, 2010. (Poster)

Research Project:

- 1) Fatemeh Azizi & Aziz Khodadadi, **Designing of Sundial**. Payame Noor University, Tehran, Iran, February, 2010.
- 2) Aziz Khodadadi, **Setting up Optics Lab**. Payame Noor University, Karaj, Iran, 2011.
- 3) Aziz Khodadadi & Fatemeh Azizi, **Design and Build of a Horizontal Sundial with scaling of Analmatics**. Payame Noor University, Karaj, Iran. February 2013.

Professional Associations

- 1) professional Member in Astronomical society of Iran

Teaching Experiences:

- 1) Special Relativity (Payame Noor University, Karaj, Iran.)
- 2) Fundamentals of Astronomy (Payame Noor University, Karaj, Iran.)
- 3) Earth in Space (Payame Noor University, Karaj, Iran.)
- 4) Quantum Mechanics 2 (Payame Noor University, Karaj, Iran.)
- 5) Quantum Mechanics 1 (Payame Noor University, Karaj, Iran.)
- 6) Classical Mechanics 1 (Payame Noor University, Karaj, Iran.)
- 7) Modern Physics (Payame Noor University, Karaj, Iran.)
- 8) Project (Payame Noor University, Karaj, Iran.)
- 9) Fundamentals of Physics 1 (Payame Noor University, Karaj, Iran.)
- 10) Physics Laboratory1 (Payame Noor University, Karaj, Iran.)
- 11) Optics Laboratory (Payame Noor University, Karaj, Iran.)
- 12) Physics with Health Science Applications (Payame Noor University, Gonbade Kavoods, Iran.)
- 13) Elementary & Basic Astronomy (Shahriar Young Student Research Institute, Shahriar, Iran.)
- 14) All Physics book in High School (Shahriar, Tehran Province, Ministry of Education, Iran.)

Administrative Responsibilities:

- 1) Academic Marker in the 3rd International Olympiad on Astronomy & Astrophysics, 17th to 26th October 2009, Iran.
- 2) The Judge of 9th & 10th Kharazmi provincial festival at student's levels, Tehran Province, Iran, 2008-2009.
- 3) Head of Physics Group in Ministry of Education, Tehran Province, Iran, 2008-2009.

Language Proficiency:

Language	Degree of Proficiency											
	Writing				Reading				Speaking			
	Native	Good	Fair	Poor	Native	Good	Fair	Poor	Native	Good	Fair	Poor
English		*				*				*		
Persian	*				*				*			
Turkish			*		*				*			

Honor(s):

- 1) Certificate of excellent in teaching at Payame Noor University, Karaj, Iran. 2015-2016.
- 2) Chosen in provincial laboratory competitions at the Ministry of Education, Tehran Province, Iran, 2020.

Referees:

- 1) Prof. D. M. Z. Jassur; E-mail: Jassur@tabrizu.ac.ir
- 2) Dr. H. Haghi; E-Mail: haggi@iasbs.ac.ir
- 3) Prof. A. Adjabshirizadeh; E-mail: a-adjab@tabrizu.ac.ir

Computer and technical skills:

- 1) Operating Systems: Windows, Linux
- 2) Programming languages: Fortran, Matlab, Visual Basic
- 3) Advanced computing: Open MP, MPI, Open MPI, CUDA
- 4) Applications: Starry Night Pro Plus, Microsoft Origin, Adobe Photoshop, Microsoft Office Word, Excel, PowerPoint), LaTeX
- 5) Instrumental skills: Observing, photography and photometry with a professional telescope

Hobbies and Interests:

- 1) Reading
- 2) Photography & Astrophotography
- 3) Riding Bike
- 4) Fishing & Swimming
- 5) Mountain, Climbing & Jogging
- 6) Playing Chess