



Kharazmi University

Faculty of Physics

Curriculum Vitae



Saeed Tavasoli

Scientific Position: Assistant Professor

Address: Faculty of Physics, Kharazmi University, P.O.Box 15614, Tehran, Iran

Phone: +98-21-88309294

Fax: +98-21-88309294

Email: tttsaeid@gmail.com

Education

Ph.D. 2011: Observational Cosmology, Department of Physics, Ferdowsi University of Mashhad, Mashhad, Iran.

- *Thesis:* A statistical study of fossil and poor groups in observation and simulation data.
- *Supervisor:* Dr. Habib Khosroshahi.

M.Sc. 2005: Observational Cosmology, Department of Physics, Ferdowsi University of Mashhad, Mashhad, Iran.

- *Thesis*: Observing surface brightness of elliptical galaxies with genetic algorithm.
- *Supervisor*: Dr. Habib Khosroshahi.

B.Sc. 2003: Physic, Department of Physics, Shiraz University, Shiraz, Iran.

Honors

- Received an honorable mention for an essay in the Gravity Research Foundation (GRF) award - 2014. "Unraveling the nature of Gravity with our clumpy Universe", Shant Baghran, **Saeed Tavasoli**, Farhang Habibi, Roya Mohayaee and Joseph Silk.
- First rank as Ph.D. student of Astronomy, Ferdowsi University of Mashhad, 2011.
- Research fellowship award from Institute of Astrophysics de Paris (IAP) for one month research in IAP. (2012, 2013, 2014)

Professional Activities

- Observational experience with 2.5-metre INT telescope, La Palma, Spain, 2012: Spectroscopic observation of stars.
- Observational experience with 2.0-metre Faulkes Telescope North, Hawaii, Jul.2008: Photometric observation of FG Sge as part of the International School for Young Astronomers (ISYA), Istanbul, Turkey
- Visiting researcher, IAP, Paris, France (2012, 2013, 2014), granted from Center of Cosmological studies (CCS).
- Visiting researcher, Isaac Newton Group of Telescope, La Palma, Spain (2012)
- Visiting researcher, IUCAA, Pune, India (Dec. 2006)
- Referee of the Astrophysical Journal (ApJ)

Membership

- Professional member, Astronomical Society of Iran, (2013- present).

Teaching

B.Sc. courses

Classical Mechanics, Mathematical Physics, Introduction to Astrophysics, Fundamental Physics.

M.Sc. courses

Observational Cosmology.

Research Interests

- Large Scale Structure: Studying on Voids
- Large Scale Structure: Studying on Group and Cluster
- Galaxy Formation and Evolution
- Statistical study on Observation and simulation data

Papers

9- *"The Galaxy Population in Voids: Are all voids the same?"*

Tavasoli S., Rahmani H., Khosroshahi G. H., Vasei K., Lehnert M., 2015, ApJL, 803L, 13T

8- *"Probing the local bubble with diffuse interstellar Bands. The DIB properties in the Northern hemisphere"*

Farhang A., Khosroshahi G. H., Javadi A., Jacco V. L., Mandy B., Molaeinezhad A., **Tavasoli S.**, Habibi F., Kourkchi E., Rezaei S., Saberi M., Hardy L., 2015, ApJ, 800, 64F

7- *"Peculiar velocity measurement in a clumpy universe"*

Habibi F., Baghran Sh., **Tavasoli S.**, submitted to A&A

6- *"Unraveling the nature of Gravity through our clumpy Universe "*

Baghran Sh., **Tavasoli S.**, Habibi F., Mohayae R., Silk J., 2014, JMPD, 2342025B

5- *"Effect on SNe Ia luminosity by the intervening voids and galaxies "*

Tavasoli S., Habibi F., Baghran Sh., Mohayae R., Silk J., submitted to MNRAS

4- *"Ultimate age-dating method for galaxy groups;clues from the Millennium Simulations"*

Raouf M., Khosroshahi, Habib G., Ponman, T. J.; Dariush, Ali A.; Molaeinezhad, Alireza; **Tavasoli, S.**, 2014, MNRAS, 442, 1578R

3- *"The Challenge of large and empty voids in SDSS DR7 redshift survey"*,

Tavasoli S., Vasei K., Mohayae R., 2013, A&A, 553A, 15T

2- *"A Statistical Study of the Luminosity Gap in Galaxy Groups"*,

Tavasoli S., Khosroshahi H., Koohpae A., Rahmani H., Ghanbari J. ,2011, PASP, 123, 1

1- *" The Spatial Distribution Function of Galaxies at high redshift "*,

Rahmani H., Saslaw W., **Tavasoli S.** ,2009, ApJ, 695, 1121

Talks (selected conferences and schools)

1. *Evolution of Spiral galaxy*, 38th International School for Young Astronomers (ISYA), Tehran, Aug. 2016, Iran
2. *Are all voids the same?*, Galaxies Inside and Out workshop, Jan. 2015, Tehran, Iran

3. *The Challenge of large and empty voids in SDSS DR7 redshift survey* ,
21st IPM Physics Spring Conference, Tehran, IPM, May 2014, Iran
4. *Observing surface brightness of elliptical galaxies with genetic algorithm*
,8th International School for Young Astronomers, Istanbul, Jul.2008, Turkey

Conferences and schools participated

- *38th International School for Young Astronomers (ISYA)*, **Tehran, Aug. 2016, Iran**
- *An ESO/IAU Summer School on Modern Instruments*, **Brno, Sept. 2015, Czech**
- *Summer School, New Era of the Cosmic Distance Scale*, **Tokyo, July. 2015, Japan**
- *First ICTP Advanced School on Cosmology*, **Trieste, May. 2015, Italy**
- *Galaxies Inside and Out*, **Tehran, Jan. 2015, Iran**
- *Evolving Galaxies in Evolving Environments*, **Bologna, Sept. 2014, Italy**
- *Cosmic Voids in the Next Generation of Galaxy Surveys*, **Ohio, Aug. 2014, USA**
- *21st IPM Physics Spring Conference*, **Tehran, IPM, May 2014, Iran**
- *N body gravitational dynamical system From N=2 to infinity*, **Paris, Dec. 2013, France**
- *GALFORMOD meeting*, **Garching, Dec. 2012, Germany**
- *8th International School for Young Astronomers (ISYA)*, **Istanbul, Jul. 2008, Turkey**
- *Cosmology with CMB and Large Scale Structure*, **Pune, Feb. 2008, India**
- *Photometry and Spectrometry in Indo-French School* , **Pune, March. 2007, India**

Thesis Supervision

- Studying on physical properties of BCG in Fossil and Poor Groups,
Zeinab Arefi Moghadam, Kharazmi Univ., Tehran, 2014.
- Comparing Fundamental Plane of Elliptical Galaxies in Group Galaxy,
Ehsan Darbanian, Damghan Univ., Damghan, 2015.