

Halime Miraghaei

Personal information

First name: Halime Hossadat

Last name: Miraghaei Jafari

Nationality: Iranian

Marital Status: Married

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Education & Qualifications

Apr. 2018- Now: Assistant Professor, RIAAM, Maragha, Iran

Oct. 2014- Dec. 2017: Postdoctoral Researcher, IPM, Tehran, Iran

Sep. 2008- Sep. 2014: Ph D in Observational Cosmology, Sharif University of Technology, Tehran, Iran

Sep. 2006 – Sep. 2008: M Sc in Gravitational Physics and Astronomy, Tehran University, Tehran, Iran

Sep. 2002 – Aug. 2006: B Sc of Physics, Sharif University of Technology, Tehran, Iran

Research Interests

- Radio loud Active Galactic Nuclei (AGN)
- Galaxy clusters and groups, Fossil galaxy groups
- Radio Astronomy (LOFAR, GMRT, SKA)

Publications and Conference Proceedings

- On the origin of morphological dichotomies observed in powerful radio galaxies, **H. Miraghaei** and P. N. Best, Journal of Physics: Conference Series, 2017, 869, 012078.
- 'No smoking' zone for giant elliptical galaxies, H. G. Khosroshahi, M. Raouf, **H. Miraghaei**, S. Brough, D. J. Croton, S. Driver, A. Graham, I. Baldry, M. Brown, M. Prescott, L. Wang, 2017, ApJ, 842, 81.
- The nuclear properties and extended morphologies of powerful radio galaxies: the roles of host galaxy and environment, **H. Miraghaei**, P. N. Best, 2017, MNRAS, 466, 4346
- Fossil Systems; a Multi-wavelength Approach towards Understanding Galaxy Formation, Habib G. Khosroshahi, **Halime Miraghaei** and Mojtaba Raouf, 2016, Galaxies, 4(2), 5
- AGN Activity and IGM Heating in Fossil Cluster RX J1416.4+2315, **H. Miraghaei**, H. G. Khosroshahi, C. sengupta, S. Raychaudhury, T. J. Ponman, N. N. Jetha, S. Abbassi, 2015, AJ, 150, 196

- Radio properties of fossil galaxy groups, **Halime Miraghaei**, Habib Khosroshahi, Proceedings of Armenian-Iranian astronomical workshop, 13-16 Oct 2015, Byurakan, Armenia
- Fossil systems; a multi-wavelength approach towards understating galaxy-halo connection, Habib Khosroshahi, **Halime Miraghaei**, IAU General Assembly Meeting, 3-14 Aug 2015, Honolulu, Hawaii
- Fossil galaxy group, a new probe for merger-triggered AGN activity, **H. Miraghaei**, Habib Khosroshahi, EWASS, 22-26 June 2015, La Laguna, Tenerife, Canary Islands, Spain
- Probing galaxy formation models in cosmological simulations with observations of galaxy groups, Habib G. Khosroshahi, Ghassem Gozaliasl, Alexis Finoguenov, Mojtaba Raouf, **Halime MirAghee**, 2015, PKAS, vol. 30, issue 2, pp. 349-353
- IGM Heating in Fossil Galaxy Groups, **H. Miraghaei**, H. G. Khosroshahi, H. R. Klockner, T. J. Ponman, N. N. Jetha, S. Raychaudhury, 2014, MNRAS, 444, 651.
- IGM Heating and AGN Activity in Fossil Galaxy Groups, **H. Miraghaei**, et.al., Proceeding of International Astronomical Union, Vol 9, S304, Oct 2013, pp 349-350
- LOFAR: Recent imaging results & future prospects, 2011, George Heald, ., **H.Miraghaei** et.al, JApA, Vol. 32, p. 589-598
- Exact Classical Tests of General Relativity in Newtonian Limit of Schwarzschild –de sitter Spacetime, 2010, **H. Miraghaei**, M.Nuri-Zonooz, Gen.Rel.Grav., 42, 2947
- Exact Solution for the Massless Cylindrically Symmetric Scalar Field in General Relativity With Cosmological Constant, 2009, D. Momeni, **H. Miraghaei**, Int.J.Mod.Phys. A, 24, 5991
- AGN Heating in Fossil Galaxy Groups -- A Joint Chandra and GMRT Study, Nazirah N. Jetha, Habib Khosroshahi, Somak Raychaudhury, Chandreyee Sengupta and Martin Hardcastle , **Halime Miraghaee**, Proceedings of the conference held 22-25 September, 2009 in Boston, USA

Related Experience

- Visiting Researcher, Institute for Astronomy, Royal Observatory, Edinburgh, UK, Nov 2015, 2016, 2017.
- Scientific organizer and invited speaker, IPM radio astronomy school, 16-17 Dec. 2017, IPM, Iran
- Invited speaker, Conference Series for Observational Cosmology and Astronomy, Sep. 2017, IPM, Iran
- Member of Local organizing committee, ISYA, 2016, Iran
- Invited speaker, First ASI winter school, Feb 2016, Zahedan, Iran

- Member of Scientific Organizing Committee and Invited speaker, Radio data reduction school, 22-23 Aug 2015, Yazd, Iran
- Member of Local organizing committee and speaker, International workshop on galaxies inside and out, Jan. 2015, IPM, Iran.
- Visiting Student, Max Planck Institute for Radio Astronomy (MPIfR), Bonn, Germany, Nov. 2010-Apr. 2011.
- Participant student, LOFAR Polarization Busy Week, 21-25 Mar 2011, MPIfR, Bonn, Germany
- Participant student, LOFAR Imaging Busy Week, 17-21 Jan 2011, ASTRON, Dwingeloo, Netherlands
- Participant student, LOFAR Polarization Busy Week, 11-22 Oct 2010, ASTRON, Dwingeloo, Netherlands
- Participant student , LOFAR Data Analysis School, Oct. 11-15, 2010 , ASTRON, Dwingeloo, Netherlands (LOFAR Data Reduction and Imaging)
- Visiting student, NCRA (National Center for Radio Astronomy), July 2009, Puna, India
- Participant student, IPM School and Workshop on Optical Data Reduction, Nov. 2008, Tehran, Iran

Awards & Achievements

- Sep. 2010, Awarded Bonyad Melli Nokhbegan scholarship for PhD
- May. 2008, Awarded Sharif University Studentship for PhD
- Sep. 2006, Awarded Tehran University Studentship for M Sc
- Sep. 2002, Awarded Sharif University Studentship for B Sc
- Oct. 2000, Awarded first prize for the best young investigator in “Khwarizmi Young Award”¹

Other skills

- Programming languages: C++, Pascal, SQL, Python , IDL
- Other software : Maple 9.5, Topcat , DS9, Latex , Gnuplot , Qtiplot, Kvis, GAIA
- Operating system: Linux (SuSE, Fedora), Windows
- Image processing software: CASA, AIPS, IRAF, Lofar data reduction and imaging pipeline

Membership

- Member of ATHENA X-ray Observatory mission², 2015-Now
- Member of International Astronomical Union (IAU)³, Sep. 2015-Now
- Member of observational cosmology group at IPM⁴, 2008-2017
- Member of Astronomical Society of Iran⁵ 2012-Now
- Member of Bonyad Melli Nokhbegan, (Iran’s National elite foundation) ⁶2010-Now

¹ <http://www.khwarizmi.ir/>

² <http://www.the-athena-x-ray-observatory.eu/>

³ <http://www.iau.org/administration/membership/individual/16690/>

⁴ <http://www.astro.ipm.ir/people.jsp>

⁵ <http://www.asi.ir/>

⁶ <http://bmn.ir/>

- Associated member of LOFAR Key Science Project on Cosmic Magnetism⁷, 2010-2011

Student Supervision

- Vajiheh Sabzali; MSc thesis on radio observation of galaxy groups, 2016-2017

⁷ <http://www.mpifr-bonn.mpg.de/staff/rbeck/MKSP/mksp.html>