Curriculum Vitae (CV)

Mahmoud Gholipour

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Research Institute for Astronomy and Astrophysics of Maragha (RIAAM) -Maragha, IRAN

EDUCATION

- Mazandaran University, Babolsar, Iran

  Ph.D., (October 2011-February 2015)

  Dissertation: The transformation of molecular cloud cores from spherical to prolate shapes via surface heating

- Tehran University, Tehran, Iran
  M.Sc., Dissertation: Ferromagnetism in neutron stars

PUBLICATIONS

1- The Response of Filamentary and Spherical Clouds to the Turbulence and Magnetic Field, **Gholipour M.**, 2018, New astronomy, 61, 70

2- The Study of Spherical Cores with a Toroidal Magnetic Field Configuration, **Gholipour M.**, 2017, ApJ, 838, 140

3- Rossby Wave Instability in the Accretion Flows around Black Holes, **Gholipour M.**, 2017, ApJ, 838, 140

4- The magnetic prandtl number on structure of hot and cold accretion flows, **Gholipour M.**, 2017, New Astronomy, 57, 43

5- The behavior of magnetic Prandtl number on the Rossby wave instability in the protoplanetary discs, **Gholipour M.**, Ebadi, Hossein; Shaji, Zeynab, 2017, Ap&SS, 362, 124

6- Dual behavior of the toroidal magnetic field versus the Rossby wave instability, **Gholipour M.**, 2017, Ap&SS, 838, 140

7- The Role of Toroidal Magnetic Field on the Rossby-wave Instability, **Gholipour M.**, Nejad-Asghar M., 2015, MNRAS, 449, 2167

8- Rossby-wave instability in viscous discs, **Gholipour M.**, Nejad-Asghar M., 2014, MNRAS, 441, 1910

9- The prolate Bok globules evidence for the existence of dark matter sub-halo, **Gholipour M**., Nejad-Asghar M., 2014, Ap&SS, 349, 401

10- Effect of vapor pressure of grains in formation of planetesimals through the accretion disc, **Gholipour M.**, Nejad-Asghar M., 2013, Ap&SS, 344, 365

11- The transformation of molecular cloud cores from spherical to prolate shapes via surface heating, **Gholipour M.**, Nejad-Asghar M., 2013, MNRAS, 429, 3166

12- Viscothermal instability in Keplerian disc and formation of overdense regions, **Gholipour M.**, Nejad-Asghar M., 2013, Ap&SS, 343, 65

AWARDS AND HONORS

- Best Ph.D. Student Award. University of Mazandaran 2015
- Best Researcher Award. University of Mazandaran 2014
- Best B.S. Student Award. University of Semnan

RESEARCH INTERESTS

- Instabilities and turbulence in proto-planetary disks
- Planet formation in proto-planetary disks
- Star Formation and the Interstellar Medium in the Milky Way

TEACHING

- Advanced Astrophysics 1 &2, Computational physics, M. S., Research Institute for Astronomy and Astrophysics of Maragha, Maragha 2016-Now
- Physics 1 & 2, B.S., University of Kashan, Kashan, 2015
- Introductory astrophysics, B.S., University of Mazandarn, 2012-2014
- Computational physics, B.S., University of Mazandarn, 2012-2013
- Physics laboratory 1,2, B.S., Parsa University, Babolsar, 2013-2014
- Physics 1 & 2, B.S., Parsa University, Babolsar, 2013-2014

WORKS IN PROGRESS

- The Rossby wave Instability in proto-planetary disk
- Importance of the Ohmic Resistivity in the Gravitational Collapse of the Filamentary Clouds
- Time-dependent Study of an Accretion Flow with Magnetic Prandtl Number

COMPUTER SKILLS

- Fortran, Matlab, Visual Basic, C++
- Linux, Maple 18
- Computer cluster architecture