CV

Personal Data

1. **Name in Full: Ahmed Ahmed Ibrahim**
2. **Date of Birth: Day 25 Month 10 Year 1969**
3. **Nationality: Egypt**
4. **Current Status:**

Lecturer at Al-Azhar University, Faculty Of Science, Department of Astronomy and Meteorology

Education

1988 – 1992 B. Sc. (Physics and Astronomy) Cairo university, faculty of science
1995 – 1999 M. Sc. (Astrophysics) Cairo university, faculty of science
2003 - 2007 Ph. D. (Physics and Astronomy) Kyoto University, Japan Physics
Doctoral dissertation: "Long term simulation of astrophysical jet; Energy structure and quasi periodic ejection "
Supervisor: Kazunari Shibata

Research Experiences

1995 – 1999 Studying the statistical properties (astrometry) of the open clusters to determine their distances, ages, and the evolution. That will enable us to understand the distribution of the stars and the time evolution inside our Galaxy

2003 - 2007 Studying the astrophysical jets theoretically and by using the MHD (magnetohydrodynamics) simulations. The MHD simulation using the supercomputer gives the opportunity to determine and understand the physical processes which give answers to the questions about the physical reasons of that high speed and collimated ejections.

Current projects

One of most hot topic in astrophysics is solar physics and space weather. To make a prediction of the space weather conditions we have to observe the sun daily continuously. The Flare Monitoring Telescope (FMT) will be constructed at Physics and astronomy department, king Saud University to investigate the long-term variation of solar activity and explosive events. It has five solar imaging telescopes that simultaneously observe the full-disk Sun at different wavelengths around H-alpha absorption line or in different modes. Therefore, the FMT can measure the three-dimensional velocity field of moving structures on the full solar disk. The science target of the FMT is to monitor solar flares and erupting filaments continuously all over the solar disk and to investigate the correlation between the characteristics of the erupting phenomena and the geoeffectiveness of the corresponding CMEs. Our FMT will be a member of worldwide

project called as "Continuous H-alpha Imaging Network (CHAIN)-project" so that we can continuously observe solar active phenomena for 24 hours.

Current work

I noticed from the images of the active region AR 11476 that there were many surges occurred at the west side of the main sunspot. In my opinion, the surge events are worthy of analysis and studies, because:

(1) The two days (May 13 and 14) were during the decaying period of the AR, but surges are always evidence of new magnetic flux emerging

(2) The position is still not far from the solar disk center, the HMI magnetic field data (line of sight component) can be useful

(3) There are Halpha line center and off-band data available from Hida's SMART telescope

I think, based on SDO/HMI data and SMART Halpha data, the surge events can be analyzed soon. I will use SMART site: http://www.hida.kyoto-u.ac.jp/SMART/T1.html to download Halpha Fits data (Halpha +/- 0.5A, 0.8A, center), I will list every event of surge I can find. And later download the HMI magnetograms for those exact surge events.

5. Academic Degree Doctor of Science (PhD)
Date Obtained: 23 / 5 / 2007
Field: Physics and Astronomy
Institute: Kyoto University (Country) Japan

Teaching Experiences

6. Previous Employment (Start from the latest one)

Name of Institute	Location	Position	From – To
King Saud University	Saudi Arabia Riyadh	Assistant Prof.	10/2010- up to now
Al-azhar University	Egypt, Cairo	Lecturer	12/2007- 10/2010
Al-azhar University	Egypt, Cairo	Assistant lecturer	6/2007-12/2007
Kwasan observatory	Japan, Kyoto	Observer	4/2007-6/2007
Kyoto University	Japan, Kyoto	Teaching assistant	4/2003-4/2007
Al-azhar University	Egypt, Cairo	Assistant lecturer	7/1999-9/2002
Al-azhar University	Egypt, Cairo	Administrator	4/1994-7/1999

7-List of Major Publications

Authors (all), title, Journal, Vol., No, pp. - , Month, Year

1- Ahmed Ibrahim, Sato, K. and Kazunari Shibata, Long Term Simulations of Astrophysical Jets

2004PThPS. 155. .343 I

2-Ahmed Ibrahim and Kazunari Shibata, Long-Time Simulations of Astrophysical Jets: Energy Structure and Quasi-Periodic Ejection, PASJ: Publ. Astron. Soc. Japan 60, 871–887, 2008 August 2

3- Shen, Yuandeng; Liu, Yu; Su, Jiangtao; Ibrahim, Ahmed
Kinematics and Fine Structure of an Unwinding Polar Jet Observed by the Solar Dynamic Observatory/Atmospheric Imaging Assembly, 2011ApJ...735L..43S

4- Y.-D Shen1, J.-T. Su2 · H. Li3 ·
X.-F. Zhang, Z.-J. Tian1 · R.-J. Zhao,
A. Ibrahim, A. Eimhamdi, and Y. Liu
Direct Evidence for the Heating of Local Plasmas by a Quasi-Periodic Fast Propagating Magnetosonic Wave in the Low Corona

suppmeted to Solar Physics

8- Conference:

1-The first Arabic conference for astronomy and Geophysics (20-22 ,October, 2008) Egypt Oral presentation
2- 2ND EAST-ASIA NUMERICAL ASTROPHYSICS MEETING (EANAM2006), November 1-3 (Wednesday
- Friday) Daejeon Korea
3-The Extreme Universe In The Suzaku Era Kyoto Japan December 4-8, 2006
Poster paper
4-Japan Astronomical society Nagoya March 22-24,2004, oral presentation
5-International Workshop MHD Accretion Flows and Jets
Yukawa Institute for Theoretical Physics (YITP), Kyoto, Japan. January 25-27, 2005
Poster paper

10- Language Ability: excellent level in English (TOEFL 567)

11- Using Computer Ability: Excellent user of Computer under both of O/S windows and Linux. Programmer in FORTRAN language, IDL

12- Teaching:
Photometry, Astrophysics, Astronomy instrument, statistical astronomy, Stellar structure and evolutions, Telescopes and detectors, modern physics, General Physics

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