Kyoung Hee Kim

Contact Information

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Research Interests

Star formation, Young Stellar Objects, planet formation, protoplanetary disk evolution, Transitional disks, Gas and Dust components and evolution in ISM and disk

Education

University of Rochester, Rochester, New York USA

Ph.D. Candidate, Astrophysics, since January 2009
expected defence date: April 2013

- Dissertation Topic: "Infrared spectroscopic survey of the protoplanetary disks in Orion A and their evolution"
- Advisor: Dan M. Watson

M.S., Physics and Astronomy, May 2005

Korea University, Seoul, Korea

M.S., Physics, Feb, 2002
B.S., Physics, August, 1999

Kongju National University, Kongju, Korea

B.A., Science Education (Earth Science), Feb, 1997

Research Experience

Astronomy/Astrophysics

Data reduction and spectra analysis of Infrared Spectrograph (IRS) on board Spitzer Space Telescope. **August 2004 - present**

High energy Physics/Particle Physics

CLEO-c experiment at CESR **fall 2003**
CMS experiment at CERN, Construction and Testing of the RPC (Resistive Plate Chamber) for the higgs particle search at the CMS/LHC **2001-2002**
D-zero experiment at FNAL, Electrical testing and repairing for SMT (Silicon Microstrip Tracker) for Run II **2000**

Accepted Research Proposals

PI, *"Diagnostics of Disk Accretion in Transitional Disks in Orion A star-forming region from 0.8 to 2.5 microns"*, NASA Infrared Telescope Facility, 2010A

PI, *"Polycyclic aromatic hydrocarbons (PAHs) in protoplanetary disks around late-type T Tau stars in Orion Nebular Cluster"*, Herschel Space Telescope, OT1 GO [31.3 hours, $155K]

PI, *"Evolution of disk-young star accretion: SpeX observations of a homogeneous large sample of Class II YSOs in the Orion A star-forming region"*, NASA Infrared Telescope Facility, 2011A-2011B

PI, *"SHARC-II/CSO survey of transitional disks in the Orion A star-forming region"*, Caltech Submillimeter Observatory, 2011A-2011B

Observing Experiences

NASA Infrared Telescope Facility (IRTF)(3 nights/2010A): SpeX/SXD data taking

NASA Infrared Telescope Facility (IRTF)(4 nights/2011A): SpeX/SXD data taking

NASA Infrared Telescope Facility (IRTF)(3 nights/2011B): SpeX/SXD data taking

Caltech Submillimeter Observatory (CSO)(4 nights/2011A): SHARCII data taking

Caltech Submillimeter Observatory (CSO)(4 nights/2011B): SHARCII data taking

Caltech Submillimeter Observatory (CSO)(7 nights/Feb-March, 2012): SHARCII data taking

Academic Experience

University of Rochester, Rochester, New York, USA

- *Teaching Assistant*: grading PHY 218 (Electricity and Magnetism II) **Spring, 2004**
- *Teaching Assistant*: grading PHY 227 (Thermodynamics and Statistical Mechanics) **Spring, 2004**

Korea University, Seoul, Korea

- *Teaching Assistant*: lecturing, General Physics Experiment **Fall, 2001**
- *Teaching Assistant*: grading, Particle Physics **Fall, 2001**
- *Teaching Assistant*: grading & recitation, General Physics **Spring, 2001**
- *Teaching Assistant*: grading & recitation, General Physics **Fall, 1999**

Kongju National University, Kongju, Korea

- *Apprentice Teacher*: teaching Earth Science at the Attached Middle-High school to the College of Education at Kongju National University **April, 1995**

Honors and Awards

Fellowships

Fellowship for Research Intern Program (Korea Science and Engineering Foundation) **2002**

Scholarships

Baek Woon Scholarship (Department of Physics at Korea University) **Fall 2001**
Baek Woon Scholarship (Department of Physics at Korea University) **Spring 2000**
Honor Scholarship (Korea University) **Spring 1999**

Honors

First Class Honors (Korea University) **Spring 1999**

Memberships

- IRS_Disks Team member (2004-present)
- American Astronomical Society Junior member (2005-present)
- Korea Physics Society Junior member (1999-2002)

Computer Skills

- Data Reduction softwares: for SpeX/IRTF; for IRS/Spitzer
- Languages: Fortran, IDL, Python, some use of Unix shell scripts.
- Applications: LaTeX, common Windows database, spreadsheet, and presentation software
- Operating Systems: Unix/Linux, Windows.

Languages

- Korean (native)
- English (advanced)