

Motohide TAMURA

Prof. Tamura is the chief of the Exoplanet Project Office in National Astronomical Observatory of Japan. He is also a member of the faculties of The Graduate University for Advanced Studies. He received his doctorate from the Kyoto University in 1988. He has been working in many fields of infrared astronomy, astronomical polarimetry, and infrared instrumentation. His scientific research fields have covered a broad range from extrasolar planets, brown dwarfs, star and planet formation, and interstellar matter. He is an author of ~250 refereed articles. He received the 2011 ASJ Hayashi Chushiro Prize. He has been the principal investigator of Subaru/HiCIAO & CIAO, IRSF/SIRIUS & SIRPOL, and the ongoing SEEDS project.

(Education)

1988 Ph.D., Kyoto University, Kyoto

1985 M.S., Kyoto University, Kyoto

(Positions)

2004- Chief of Extrasolar Planet Detection Project Office of NAOJ

1998- Associate Professor, NAOJ, Tokyo

1992-1998 Research Associate, NAOJ, Tokyo

1990-1992 Post-doctoral Fellow, JPL, Pasadena

1988-1990 Post-doctoral Fellow, NAOA and UMASS, Tucson

(Research Interest and Experience)

- Brown dwarfs and extrasolar planets
- Star and planet formation, Interstellar matter
- Astronomical polarimetry
- Infrared instrumentation

(Selected Papers)

"Isolated and Companion Young Brown Dwarfs in the Taurus and Chamaeleon Molecular Clouds", Tamura, M. et al. 1998, Science, 282, 1095-1097.

"Circular Polarization in Star Formation Regions: Implications for the Origin of Biomolecular Homochirality?", Bailey, J. et al. 1998, Science, 281, 672-674.

"Spiral Structure in the Circumstellar Disk around AB Aur", Fukagawa, M. et al. 2004, ApJ, 605, L53-L56.

"A circumstellar disk associated with a massive protostellar object", Jiang, Z. et al. 2005, Nature, 437, 112-115.

"First Two-Micron Imaging Polarimetry of beta Pictoris", Tamura, M. et al. 2006, ApJ, 641, 1172-1177.

"Near-Infrared Polarization Images of the Orion Nebula", Tamura, M. et al. 2006, ApJ, 649, L29-L32.

"Magnetic Field Configuration at the Galactic Center Investigated by Wide-field Near-infrared Polarimetry", Nishiyama, S et al. 2010, ApJ, 722, L23-L26.

"Direct Imaging of Fine Structures in Giant Planet-forming Regions of the Protoplanetary Disk Around AB Aurigae", Hashimoto, J. et al. 2011, ApJ, 729, L17-L21.