



Contribution ID: 352

Type: **Poster**

The study of physical properties of low density sub-Saturn mass exoplanet HAT-P47b

Thursday 25 May 2017 17:45 (15 minutes)

Nowadays, the studies of exoplanets are extensive and various. The different techniques are used to analyze the masses, radii and other specific data about exoplanets. HAT-P-47b transiting exoplanet candidate is a recent discovered low density sub-Saturn mass exoplanet. The planet is one of the lowest mass planets with the radius larger than Jupiter radius, which is a suitable candidate for exoplanet atmosphere. We observed HAT-P-47 host star 2 nights with 2.4 m Thai National telescope and 0.7 m robotic telescope at Lijiang observatory, China, between 2016 and 2017. We can confirm the transits of the planet. The HAT-P-47b planetary parameters are revised using the Transit Analysis Package.

Keywords : exoplanets, transit timing variation, the heaviest mass scope of the other planet, star HAT-47, planet HAT-P47b, star HAT-47's light decreasing

Primary authors: Mr MATEEWATTANAKUL, Jathurawit (ChiangMai University Demonstration School); Ms PADJAROEN, Supichaya (Chiang Mai University Demonstration School)

Co-authors: Prof. KOMONJINDA , Siramas (Chiang Mai University); Dr AWIPHAN , Supachai (NARIT, Thailand)

Presenters: Mr MATEEWATTANAKUL, Jathurawit (ChiangMai University Demonstration School); Ms PADJAROEN, Supichaya (Chiang Mai University Demonstration School)

Session Classification: Poster Presentation II

Track Classification: Astronomy, Astrophysics, and Cosmology