

[ST-05] A new catalog of AGB stars

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We have made a new catalog of AGB stars using the results of recent investigations of the individual object. We verify the class identifications of the oxygen-rich AGB stars, carbon-rich AGB stars, and silicate carbon stars. We present infrared 2-color diagrams of the AGB stars from the observations at near infrared and IRAS point source catalog (PSC). We make the theoretical evolutionary tracks on the 2-color diagrams using the results of the radiative transfers models for the oxygen-rich and carbon-rich dust envelopes. Comparing the observations with the theoretical evolutionary tracks, we discuss the meaning of the infrared 2-color diagrams.

[ST-06] NIR observation of exoplanet's transit

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We have observed the transit of exoplanet, CoRoT-Exo-1b, in J and Ks bands with KASINICS, the near infrared CCD camera at BOAO. CoRoT-Exo-1b is one of the well known transiting exoplanets of which mass is 1.03 MJ and the radius is 1.49 RJ. Our data covers whole transit event which contains both ingress and egress part. We have light curves of flat-bottom shape in both bands which have less limb darkening effect than those in visible bands to give more precise physical parameters of the planet such as radius and density of the planet.