

V77a **Development of Four-Color Simultaneous Imager for Lulin 2-m Telescope**

木下大輔、吳景煌、陳澤銓、沈益承、黃如慧、浦田裕次

In order to carry out follow-up observations for discoveries by PS1 sky surveys of Pan-STARRS project, we develop visible four-color simultaneous imager for 2-m telescope which is being built at Lulin Observatory in Taiwan. The main scope of the observations with 2-m telescope is to measure the colors of transient and moving objects and their time variations. To realize the reliable and efficient color measurements for these targets, the instrument splits the signal from the telescope using dichroic mirrors, and four images are recorded simultaneously by four CCD cameras. For PS1 compatible r, i, z-bands, cameras with deep depletion CCDs are used. For PS1 y-band camera, a fully depleted CCD will be used to achieve higher sensitivity at longer wavelength. We report on the scientific objectives, overall design of the instrument, including the detectors, optics, readout electronics, and control software, and current status of the project.