

L04a **Planet Spectra Analysis**

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Now that extrasolar planets have been directly observed, it is important to determine what information can be learned from low resolution spectra and color data.

We have compiled and plan to publish a Planet Spectral Library which includes all of the planets, as well as moons and dwarf planets where data is available. The spectral range is from 0.4 to 2.5 microns. All data was taken using the same telescope and instrument combination to minimize calibration errors. We used the TRISPEC instrument on East-Hiroshima Observatory's 1.5 meter telescope.

We hope the Planet Spectral Library will be a useful reference and calibration tool for the study of extrasolar planets and Sol System planets.

We have started analysis of the spectra and already certain patterns have emerged. Here we will present those findings.