

## Infrared Spectroscopy with the Spitzer IRS

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The Infrared Spectrograph (IRS) on Spitzer consists of four separate modules that cover the 5–40 micron wavelength range. Two of these operate at low resolution ( $R\sim 80$ ) and cover the full 5–40 micron range, and two operate at high resolution ( $R\sim 600$ ) in the 10–40 micron range. An on-board peak-up camera allows for accurate placement of targets on the narrow slits. The wavelength coverage and sensitivity of the IRS represent a significant leap in the capabilities for spectroscopic study of Solar System, Galactic, and extragalactic targets in the mid-infrared. We briefly describe the capabilities of the IRS, and focus on some early extragalactic science results covering both low and high-redshift galaxies.