

Star and Planet Evolutionary Conditions Interferometric Exploration Spectrometer (SPECIES)

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The Star and Planet Evolutionary Conditions Interferometric Exploration Spectrometer (SPECIES) is a mission concept proposal submitted in response to NASA's Origins Theme call for mission concepts. The SPECIES mission is a free-flying interferometric array, operating in the submillimeter/far-infrared bands, using heterodyne receivers capable of very high-resolution imaging and spectroscopy. SPECIES is optimized to observe the early phases of star-formation with sufficient spatial resolution to characterize the internal structure of star- and planet-forming disks in the nearest molecular clouds.