Conference: Signposts of Planets
Location: GSFC, Greenbelt, MD
Dates: October 18-20, 2011

Presentation Title: "A new offset debris ring around a nearby star observed with the HST/STIS coronagraph"
Poster or Paper: Poster
First Author: John Krist
FA Affiliation: JPL
First Co-Author: Karl Stapelfeldt
First Co-Author Affiliation: GSFC & JPL
Second Co-Author: Geoffrey Bryden
Second Co-Author Affiliation JPL
Additional Authors: Peter Plavchan
Additional Author Affiliations: NExSci

Abstract: We are conducting an HST/STIS coronagraphic imaging study of nearby stars that have Spitzer-measured infrared excesses indicating that they are surrounded by debris disks. Around one of the stars we have imaged a debris ring with a sharp inner edge and extending from about 165 AU to 250 AU. The ring center is offset from the star by ~8 AU with a visually estimated intrinsic ellipticity of e~0.1, suggestive of gravitational perturbation of the disk by a planet, like the Fomalhaut disk. Assuming a neutral disk color, the mean surface brightness of V=22.3 mag/square arcsec makes this the second faintest disk yet imaged in scattered light, second to HD 207129.