

## The Latest Nulling Interferometric Observations: Limits on Vega's Exozodiacal Dust and Resolved Herbig Ae Disks

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We present the latest results using mid-infrared nulling interferometric observations with adaptive optics at the 6.5-meter MMT. Observations of Vega at  $10.6 \mu\text{m}$  (N-band) allow us to constrain the exozodiacal dust density around Vega to about 800 times our own solar system's zodiacal dust. This suggests a large density contrast in the circumstellar material between the inner system ( $< 30 \text{ AU}$ ) and the outer system, which implies the presence of a removal mechanism, perhaps a planetary companion or the sublimation of ice grains. We also present  $10.3 \mu\text{m}$  observations of two Herbig Ae stars, AB Aur and V892 Tau, in which we spatially resolve the circumstellar disk.

