

**TPF/Darwin  
Talk  
Planet Detection at Visible Wavelengths**

**Invited**

**# 361**

**Abstract**

**Review of Coronagraphic Laboratory Results**

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The most significant accomplishments over the past year or two in the effort to develop a coronagraphic system for finding terrestrial planets have occurred in the laboratory. In numerous locations, from Japan to the United States to Europe, coronagraphic approaches to high contrast have moved from theoretical concepts to experimental systems. In combination with various adaptive optics (AO) systems, contrasts from  $10^{-10}$  in monochromatic light to  $10^{-6}$  broadband have been achieved. It is the success or failure in the laboratory that will ultimately determine the viability of a coronagraph for finding planets. In this talk I will review the various approaches being attempted in laboratories around the world and present the latest results in contrast and bandwidth with and without AO.