Shape, size, and pole of resolved asteroids

Albert R. Conrad (WMKO), William J. Merline (SwRI), Jack D. Drummond (AFRL), Christophe Dumas (ESO), Benoit Carry (ESO)

Using adaptive optics and the Keck II telescope, we have been able to determine the shape, size, and pole of resolved asteroids. For this workshop, we will discuss how this work relates to the study of asteroid satellites. This includes combining improved size estimates with the mass measurements obtained from satellite tracking to improve density estimates; and plans for relating the pole solution of resolved asteroids with the orbital plane of satellites.