

**BLACK HOLES IN DENSE STAR CLUSTERS**  
**Aspen Center for Physics**  
**2015 Aspen Winter Conference January 17-22, 2015**

TITLE: Relativistic Jets from Tidal Disruption Events in Galaxy Centers

SPEAKER: Ashley Zauderer (Harvard)

The tidal disruption of a star by a supermassive black hole (SMBH) has long been predicted to produce optical/UV/soft X-ray transient emission from a newly-formed accretion disk, but in the past three years it was discovered that some fraction of tidal disruption of stars by SMBHs can launch relativistic jets, beginning with the gamma-ray source Sw1644+57 discovered on 25 March 2011. This event and the handful of others with evidence for a jet will be discussed along with tidal disruption events without evidence for a jet, with a future outlook towards upcoming all-sky optical and radio surveys.