



Contribution ID: 54

Type: **Talk**

## HD142527: A crime scene investigation

*Monday, 25 June 2018 18:10 (20 minutes)*

What is the origin of the large horseshoe, cavity, spiral arms, fast radial flows, warps and shadows in HD142527? I will present results of our recent attempts to model this mysterious disc, formerly regarded as a transitional disc. I will show that the interaction with the observed highly eccentric and inclined binary companion can explain most of the 'weird' phenomena in this disc, suggesting it should be firmly reclassified as circumbinary. How such inclined and eccentric companions arise in nature opens many questions.

**Presenter:** PRICE, Daniel

**Session Classification:** Formation of protostellar disks and jets (chair S. Antoniucci)