

**Space Science Seminar**  
**THURSDAY, 2015 October 22**  
**1:30 p.m.**  
**NSSTC/1010**

**Do GRBs Signal the Formation of Black Holes?**

Dr. Jochen Greiner / Max-Planck-Institute for Extraterrestrial Physics, Munich,  
Germany  
Host: Dr. Michael Briggs (UAH)

More than a decade ago, the discovery of SN 2003lw related to GRB 030329 demonstrated the link of GRBs to SN Ib/c. Due to the rarity of GRBs as compared to core-collapse SN, and supported by theoretical expectations for the progenitors, long-duration GRBs are believed to originate from the collapse of very massive stars. However, the more recent SN 2011kl related to GRB 111209A exhibited properties which cannot be explained with the canonical radioactivity-powering of core-collapse SN. The preferred alternative solution is based on a magnetar, and thus questions the paradigm of BH-formation in GRBs.

<http://solarscience.msfc.nasa.gov/colloquia/>