

Colloquium SFB 956

Conditions and Impact of Star Formation

09.05.2016 Monday 3:00 pm Physikalische Institute Köln Lecture Hall III Zülpicher Straße 77 | 50937 Köln

Derek Ward-Thompson Jeremiah Horrocks Institute, University of Central Lancashire, UK

Star Formation – New Insights from Herschel and SCUBA2

The Herschel Space Observatory was an ESA space telescope which flew from 2009 until 2013 and collected a huge archive of imaging and spectroscopy data at several far-infrared wavelengths. It studied, amongst other things, many regions of star formation. Detailed analysis of these investigations has allowed us to present a new paradigm for how stars form. The new paradigm involves magnetic fields, filamentary structures and gravitational attraction combining to produce the stars that we observe today. The next generation of instruments, including SCUBA2 and its polarimeter, are now being used to test the predictions of this new theory. Initial results are presented from these instruments.



