

## Institutsseminar

über

### **"To see, or not to see: Zooming in on Starbursts"**

Massive star formation in galaxies occurs in various appearances and modes, from localised H II regions to ultra-luminous infrared and sub-millimeter galaxies. In many cases, starbursts are triggered by either galaxy interactions or by central bars which transport gas toward the nuclear regions. However, the details of how and under what conditions the gas gets transformed into stars are largely unknown. In my talk I will discuss two representative systems, the Antennae galaxies and NGC 7552, based on observations with the Spitzer Space Telescope and ESO's VLT. The current limitation to these studies is the fundamental lack of mid-infrared data at high angular resolution. The future European Extremely Large Telescope (E-ELT) will provide a huge increase in sensitivity and resolution that will enable us to answer many of the open questions on massive star formation in galaxies.

von

## **Dr. Bernhard Brandl**

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**Montag, 23. Jänner 2012 um 15:00 s.t. im HS**  
des Institutes für Astronomie, Türkenschanzstraße 17, 1180 Wien

Univ.-Prof. Dr. Manuel Güdel  
Univ.-Prof. Dr. Bodo Ziegler