

Lecturer : Dr. Reinhold Dorn

**Title: “Instrumentation techniques to detect extra-solar planets with ground based telescopes ”**

**Abstract:**

Since the discovery of planets outside our own Solar System in 1992 (around a pulsar) and in 1995 (around a “normal” main sequence star), extra-solar planet studies have become one of the most dynamic research fields in astronomy.

Searching for extra-solar planets by direct or indirect detection is extremely challenging for current and future instrumentation.

This talk will give you a basic introduction to the various methods that astronomers and physicists use (with emphasis given to techniques with ground based telescopes) to find new exoplanets and the information that can be inferred.

Examples of current and near-future technologies and instruments available in the quest for new worlds will be given.