



TECHNISCHE  
UNIVERSITÄT  
WIEN  
Vienna University of Technology



**Doctoral Programme**

<http://solids4fun.tuwien.ac.at/>

## Guest Lecture

**Title:** The Advanced Infrared and THz beamLine Exploited for Spectroscopy (AILES) and its research program

**Speaker:** Dr. Pascale Roy

**Address:** Synchrotron SOLEIL, THz and IR beamline AILES, France

**Date:** Friday, 28 June 2013

**Time:** 14:30

**Place:** Seminar Room CBEG02 (387, Photonics); Gußhausstraße 27

### **Abstract:**

At the AILES beamline of SOLEIL synchrotron (France), the combined intensity, stability and wide range (0.2-20 THz) has led to an optimal use of spectroscopy in the Infrared and THz range, hitherto unusable for a wide range of demanding experiments. In particular, condensed matter research under extreme conditions (temperature, pressure, ...) and high resolution molecular studies. The coherent synchrotron emission allows an extension to the THz domain for experiments demanding an intense beam such as near field subwavelength microspectroscopy. We will describe the main characteristics of the beamline and will illustrate its performances with applications.