

SONDERSEMINAR/SPECIAL SEMINAR
LMU/MPQ

- am:** Thursday, November 13, 2014
- Uhrzeit:** 9:30 a.m. s.t.
- spriicht:** **Dr. Cecilia Clivati**
Istituto Nazionale di Ricerca Metrologica-INRIM
Strada Della Cacce 91
I-10135 Torino
Italy
- Thema:** **A 642-km Optical Fiber Link for Frequency Dissemination
and its Application in Physics Experiments**
- Ort:** **Chair Professor Theodor W. Hänsch,**
Faculty of Physics LMU, Schellingstr. 4/IIIrd Floor
Discussion Room H 311

gez. Prof. T.W. Hänsch

Abstract

"The talk describes the realization of a phase-stabilized optical fiber link for the frequency and time dissemination in Italy. The link is currently 642 km long and connects the National Institute of Metrology (INRIM) in Turin to the Institute of Radioastronomy near Bologna and to the European Laboratory for Non Linear Spectroscopy (LENS) in Florence.

I will describe implementation, first results, and its main applications in the fields of metrology, Very Long Baseline Interferometry and atomic and molecular spectroscopy."