



## Munich Workshop on Information Theory of Optical Fiber

## December 10-11, 2014 | TUM | Theresienstr. 90, 80333 Munich | Room N2408



## **TUM-IAS Focus Group for Fiber-Optic Communication and Information Theory**

Workshop speakers from Alcatel-Lucent Bell Labs, Aston University, Technical University of Denmark, Technische Universität München, Tel Aviv University, University of Athens, University College London, and University of L'Aquila

Optical fiber is a technology that enables low-cost and long-distance communication networks such as the internet. Due to a rapidly increasing traffic demand, today's fiberoptic networks face a "capacity crunch" that has spurred researchers to investigate the factors that limit capacity. One alarming observation is that, in contrast to linear channels, the capacity cannot be increased by increasing power due to the combined effects of noise, dispersion and nonlinearity. Despite much past work on the capacity of optical fiber,

the problem is not yet solved.

This workshop brings together leading scientists working on the information theory of optical fiber, with the aim of exploring new ideas and advancing understanding. The workshop will promote interaction and collaboration among experts working on the topic.

## **TUM Organizing Committee**

Institute for Communications Engineering: Luca Barletta, Tobias Fehenberger, Gerhard Kramer, Mansoor I. Yousefi

More information is available <u>online</u> or via the QR code on the right.

