



Einladung

- Es spricht: **Dr. Daniel Brunner**
Campus Universitat de les Illes Balears, Palma de Mallorca, Spain
- Zeit: **Dienstag, 09. Dezember 2014, 14:00 Uhr**
- Ort: **Technische Universität Berlin
Institut für Festkörperphysik
Hardenbergstraße 36, 10623 Berlin
Raum EW 431**
- Thema: **„Photonic reservoir computing: machine learning using laser-networks“**

Abstract:

During the past decade Reservoir Computing (RC), a novel machine learning algorithm, was introduced. It is a highly simplistic information processing scheme which was strongly inspired by neuroscience. Yet, it is a high-performance computational scheme which has demonstrated state of the art performance in complex benchmark test like spoken digit classification and chaotic timeseries prediction. Its true appeal, however, lies in its simplicity: for the first time, machine learning concepts can potentially be implemented in analogue hardware. I will demonstrate our recent progress in spoken digit classification and chaotic timeseries prediction via photonics RC based on a standard and off-the-shelf telecommunication laser diode.

Gäste sind herzlich willkommen!
Prof. Dr. S. Reitzenstein