

## Seminar über Ultrafast Science and Technology

**Referent:** Dr. Peter Peier, Eidgenössisches Institut für Metrologie METAS, Labor Ionisierende Strahlung, Bern-Wabern

**Titel:** Electron Beam Diagnostics for FELs and Medical Accelerators

This talk will be divided into two parts. In the first part I will talk about my work at DESY in the MSK group. I will report on the activities of the subgroup which is responsible for designing, installing and commissioning diagnostic elements for longitudinal electron beam properties at European XFEL. I will also point out our efforts to implement (fast) feedback systems to stabilize the electron beam in terms of bunch length and bunch arrival time. In the second part I will give a short introduction to the field of medical accelerators with special emphasis on the Microtron we are using at METAS in the lab for Ionizing Radiation. Furthermore I will outline our plans to install several additional diagnostic elements to fully characterize the electron beam of our accelerator.

**Zeit:** Donnerstag, 10.11.2016, 11:15 Uhr

**Ort:** **Hörsaal B116**, Gebäude exakte Wissenschaften, Sidlerstrasse 5, Bern, Schweiz