



KSETA Seminar

Silicon detectors: concepts, understanding and characterization

Prof. Robert Klanner

(University Hamburg)

24.01.2018 15:00 – 16:30 h

25.01.2018 10:30 – 12:00 h

13:30 – 15:00 h

26.01.2018 09:30 – 11:00 h

KIT Campus North, bldg. 425, room 206

Abstract:

Basic concepts of Si-sensors

- Different types of Si-detectors
- Bulk and surface radiation damage
- Silicon Photomultipliers: Performance, characterization and open questions
- Summary and outlook

The lectures are intended for Master and PhD students working on and using silicon detectors

Recommended basic literature – further literature will be given in the lectures:

- 1) A. S. Grove, Physics and Technology of Semiconductor Devices, John Wiley & Sons 1967
- 2) G. Lutz, Semiconductor Radiation Detectors, Springer 1999
- 3) L. Rossi, P. Fischer, T. Rohe, and N. Wermes, Pixel Detectors, Springer 2006
- 4) H. Kolanoski und N. Wermes, Teilchendetektoren, Springer 2016 (in German)