

SONDERSEMINAR
LMU/MPQ

am: Freitag, 11. Juni 2010

Uhrzeit: 10:00 Uhr s.t.

spricht: Daniel Kienzler
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Thema: The MAGIC Telescope in Moonlight and the
Laser Setup for Lithium.

Ort: LMU/Fakultät für Physik
Schellingstraße 4, IIIrd floor, Seminarraum H 311

gez. Prof. T.W. Hänsch

Abstract

The MAGIC Telescope is an Imaging Air Cerenkov Telescope which carries out observations of stellar bodies at the upper range of the electromagnetic spectrum, detecting cosmic rays with energies from 30 GeV up to 30 TeV. Due to special design the MAGIC Telescope is capable of taking data even with an increased night sky background (e. g. Moonlight or dawn), thus extending observation time exceedingly. The first part of this talk will present the consequences of increased background light for the data analysis, such as increase of the energy threshold and overestimation of noise suppression. Moreover a calibration of the telescope with respect to the lowest detectable energy will be presented. The second part will present the status of our Bose-Fermi mixture experiment with Lithium 6 and Cesium, which is currently being setup at the University of Nottingham.