

東工大 基礎・物性物理学専攻「魅力ある大学院教育イニシアティブ」 FGIP: Foreign Graduate Student Invitation Program 外国人博士課程大学院生の短期招待・共同研究

FGIP-Student Forum セミナ-

Tobias Westphal

(Albert Einstein Institute, University of Hannover, Germany) 日時: 2012年10月19日(金) 14:00~15:00 場所:本館 H155B

AEI 10m Prototype Interferometer

Abstract:



In order to build even more sensitive instruments that would allow full astrophysical analysis of the underlying events it is mandatory to develop and proof the required techniques and technology. A 10m prototype interferometer is currently being set up at the Albert Einstein Institute (AEI) in Hannover, Germany. It aims at measuring and even surpassing the standard quantum limit of interferometry. Many of the techniques required to perform this experiments are relevant for the coming generations of gravitational-wave detectors. Among these techniques are low-frequency seismic isolation, well stabilized high-power laser, digital data acquisition and control infrastructure, ultra-low loss monolithic mirror suspensions, and marginally stable Fabry-Perot cavities for the reduction of thermal noise.

In this talk I will give an overview about gravitational-wave physics and report about our experimental facility.

教員、修士課程大学院生の参加も歓迎します。

須佐友紀(内線3639) 担当

FGIP-Guest student の滞在スケジュール

名前	大学・研究機関	滞在期間	受入担当
Tobias Westphal	AEI, University of Hannover, Germany	10/1-10/27	須佐友紀

http://www.phys.titech.ac.jp/kiso/fgip FGIP Student Forum 事務局 阿部陽介 (内線:2722)