READi Workshop 2014

Research Exchange And Discovery Workshop.

Contribution ID: **27** Type: **not specified**

LUX - Laser driven undulator x-ray radiation

Wednesday 9 April 2014 11:00 (20 minutes)

Summary

Recent development in electron acceleration by means of laser-wakefield acceleration enables to reduce size of electron accelerators from hundred of meters to several milimeters. The aim of the LUX project is to make a stable source of laser-accelerated electrons to produce bright and coherent undulator x- ray radiation. The talk gives an introduction to basic physics and layout of the experiment which is performed within the LAOLA collaboration of DESY and University of Hamburg, using ANGUS, the new 200 TW laser system located in building 22 on DESY campus.

Presenter: HANUS, Vaclav

Session Classification: Photon Science