

Date: **February 24, 2016**

Time: **10:00 a.m.**

Place: **Lecture Hall (access via entrance building)**



HELMHOLTZ
ZENTRUM DRESDEN
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THE NEXT STEP IN THE EXPLOITATION OF STORAGE-RING-BASED HIGH ENERGY X-RAY SOURCES

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The European Synchrotron Radiation Facility is Europe's premier hard X-ray synchrotron radiation source serving 45 experimental stations for public use. The facility has just finished Phase I of an ambitious upgrade programme (2009-2015) covering all aspects of the facility: photon production, experimental facilities for users, user service, and X-ray technology development. The upgrade benefits all areas of X-ray applications: Imaging, Spectroscopy, and Diffraction. 19 new or upgraded beamlines provide new opportunities for the study of materials with probing beams down to the nanometer scale. Selected examples will be used to demonstrate first results of the ongoing upgrade.

In parallel we have started work for Phase II of the upgrade programme (2015-2022) focusing on the construction of a new storage ring with the goal to reduce the horizontal emittance by at least a factor of 30 by 2020. The associated linear increase in brilliance and coherence caters for new applications of X-rays for the study of soft and hard condensed matter.

We look forward to seeing you.

Prof. Dr. Dr. h. c. Roland Sauerbrey
HZDR Scientific Director