IPM

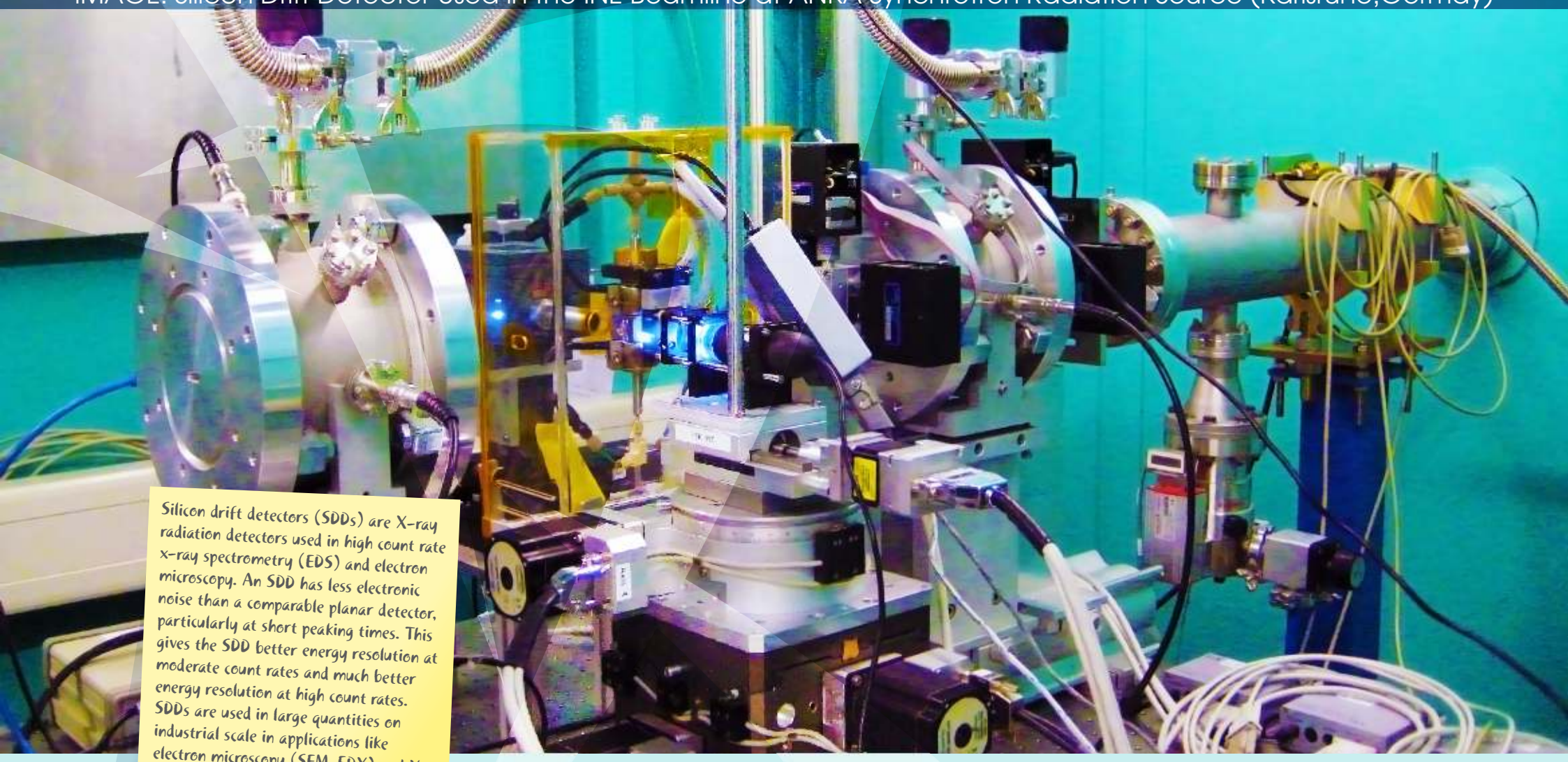
پژوهشگاه دانش‌های بنیادی

چشمه نور ایران
Iranian Light Source Facility

Seminar on

Silicon Drift Detectors

IMAGE: Silicon Drift Detector Used in the INE Beamline at ANKA Synchrotron Radiation Source (Karlsruhe,Germay)



Silicon drift detectors (SDDs) are X-ray radiation detectors used in high count rate x-ray spectrometry (EDS) and electron microscopy. An SDD has less electronic noise than a comparable planar detector, particularly at short peaking times. This gives the SDD better energy resolution at moderate count rates and much better energy resolution at high count rates. SDDs are used in large quantities on industrial scale in applications like electron microscopy (SEM-EDX) and X-ray fluorescence analysis (XRF).

LECTURER

ANDREA VACCHI

INFN

- Research Director, Italian National Institute for Nuclear Physics
- Responsible of the XAFS Silicon Drift Detectors (SDD) development within SESAME
- Principal investigator of FAMU experiment (muonic hydrogen precision spectroscopy)
- Responsible of the SDD Detectors development within the Collaboration EUROFEL
- Member of LOFT (X-ray astrophysics proposed experiment) Consortium Council
- Principal investigator of XDXL-REDSOX developing SDD for X-ray astrophysics (LOFT)
- Former Coordinator for the development of SDD for the tracking system of CERN LHC ALICE

LECTURE TOPICS

- Introduction to Silicon Drift Detectors
- Applications of Silicon Drift Detectors
- SDD as a Synchrotron Radiation Detector

Saturday, 22 April 2017, Tehran, IRAN

شنبه، ۲ اردیبهشت‌ماه ۱۳۹۶، ساعت ۱۰ تا ۱۳

تهران - ابتدای بزرگراه ارتش - پژوهشگاه دانش‌های بنیادی

Registration & More Info:

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