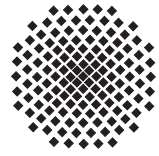


Stuttgarter Physikalisches Kolloquium

Max-Planck-Institut für Festkörperforschung
Max-Planck-Institut für Intelligente Systeme
Fachbereich Physik, Universität Stuttgart

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16.15 Uhr

Hörsaal 2D5

Stuttgarter Max-Planck-Institute, Heisenbergstraße 1, 70569 Stuttgart-Büsnau

The ESRF-EBS and the Next Chapter in X-ray Science

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Abstract

The European Synchrotron Radiation Facility (ESRF) is currently installing the first 4th generation high energy synchrotron radiation source. The start of the user operation of the ESRF-EBS in 2020 will mark the opening of the next chapter in X-ray science. The recently upgraded beamline portfolio and the vastly enhanced source performance present the opportunity to explore matter and materials in unprecedented detail.

After a short introduction into the concepts behind this new revolutionary source, opportunities for new science will be presented and the challenges that come with it, including the challenge of handling very large data sets. New approaches for data analysis and curation must be developed in collaboration with the user community for the optimum use of resources.