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The Lyncean Compact Light Source, A Stepping Stone of the Path Towards an African Light Source?

Monday, 28 January 2019 16:30 (30 minutes)

We will discuss the contribution of synchrotron radiation facilities to a region's research infrastructure and the challenges in building such a facility, in particular for regions with limited expertise and budget. We will describe how the Lyncean Compact Light Source (CLS) generates synchrotron-like X-ray beams with a much smaller footprint, how the performance compares to both conventional laboratory and synchrotron X-ray sources, and what applications are enabled by the CLS's unique beam properties. Finally, we will explore how the CLS can be a stepping stone towards building a large synchrotron facility by providing valuable expertise in the operation and maintenance of a storage ring, the opportunity to build a local, multi-disciplinary user community, as well as expertise in beamline development and X-ray applications.

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