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X-ray Detectors for Synchrotron Radiation Applications

Tuesday 14 May 2019 16:00 (45 minutes)

Although certain experimental techniques involve detection of other particles or radiation wavelengths, X-ray detectors are the primary detection devices in synchrotron radiation applications. This lecture will discuss the specificity of X-ray detection with respect to other type of particle detection and will introduce the technologies that are most suitable for synchrotron radiation. It will present also examples of state-of-the-art X-ray detectors used today in synchrotron applications classified in three families: detectors for scattering and diffraction experiments, X-ray imaging and energy dispersive detection systems.

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Session Classification: Instrumentation session