

**Lecture: Introduction to Synchrotron Radiation Instrumentation**

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Duration: 45'

**Abstract:** An overview of the characteristics of synchrotron radiation as well as the configuration of last X-ray generation facilities will be presented in the lecture. The basic layout and the main instrumentation of a SR beamline will also be reviewed, covering from the photon source to the sample under study and the detection system. Special emphasis will be put on the types of X-ray detectors in use today at SR facilities and how they fit the requirements of the different families of scientific applications.