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【201】 Advanced X-ray imaging: from the nanoscale at synchrotrons to clinical applications in hospitals

Wednesday 11 September 2024 17:00 (30 minutes)

Imaging leverages significantly on the unique properties of synchrotron radiation, in particular with the recent introduction of 4th generation facilities. In this lecture, I will showcase some of the latest results, including ptychographic nanoimaging and time-resolved tomographic microscopy and discuss related challenges. I will further elaborate on how some of the tools originally designed for machine diagnostics purposes have developed into powerful, potentially game-changing instruments with a clinical impact, specifically for breast and lung imaging. The talk has been conceived to provide an “easy-entry” into the fascinating world of modern X-ray imaging.

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