

MaMaSELF

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Resonant X-ray diffraction for multiferroic systems

Thursday, 23 May 2013 17:00 (30 minutes)

The aim of the present talk is to provide a pedagogical introduction to Resonant X-ray Diffraction (RXD) as a tool to characterize exotic (multiferroic, multipolar) order parameters. After a brief description of analogies/differences with usual x-ray diffraction and with x-ray absorption, the main focus is put on the interpretation of energy and azimuth scans. Finally, some examples of RXD signals are discussed to describe phase transitions in (possibly) multiferroic or (locally) magnetoelectric systems.

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