

## X-ray standing waves

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The x-ray standing wave technique can be used either in diffraction or reflectivity regimes. We will present an overview of results obtained in thin films and multilayers using both laboratory and synchrotron sources.

In collaboration with Paul Scherrer Institute we have performed the first experiments of x-ray standing waves using x-ray light with OAM (orbital angular momentum) on ferroelectric thin films. The experimental results show effects; however, the theoretical background of these effects is still unclear.