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Probing Chiral Condensed Matter with Coherent X-ray OAM Beams

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Chiral and other non-centrosymmetric materials host a wide range of novel electronic and magnetic phenomena. Coherent X-ray beams carrying orbital angular momentum (OAM) offer a new and largely unexplored route for probing these systems, with the potential to access symmetry and dynamical information that conventional techniques overlook. By highlighting recent studies of skyrmion lattice dynamics in a chiral magnet, this talk will illustrate both the limitations of current probes and the unique advantages that OAM-structured X-rays may bring.

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