

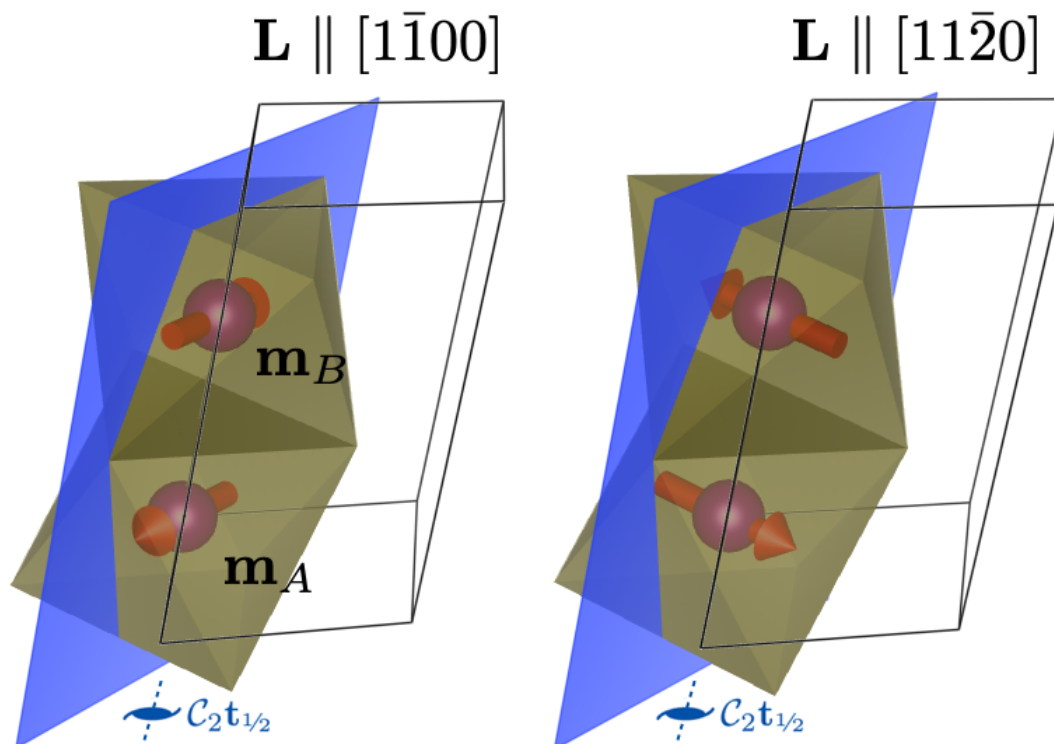


Sondertermin

X-ray Magnetic Circular Dichroism in Altermagnetic α -MnTe

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Altermagnets has been recently proposed as a new class of collinear magnets. While their magnetic lattice is that of an antiferromagnet, altermagnets exhibit physical properties usually associated with ferromagnets such as spin polarized bands, anomalous Hall effect or linear (odd) magneto-optical effects.

I will present an elementary introduction to altermagnetism using RuO_2 and MnTe as example materials. I will show recent numerical simulations predicting sizeable x-ray magnetic circular dichroism (XMCD) in MnTe and discuss its origin, which differs from the usual understanding of XMCD in ferromagnets.