

TRR Guest Scientist Lecture / Seminar

Date/Time: 09.12.2016 / 3pm Location: TU-Do / CP-01-186

Prof. Roman Pisarev
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Close relations between magnetic and optical phenomena in a complex multisublattice antiferromagnet CuB204

Abstract:

Copper metaborate CuB2O4 crystallizes in a tetragonal noncentrosymmetric space group I-42d (#122, Z=12). Magnetic Cu2+ ions (S=1/2) occupy in the unit cell two crystallographically distinct positions 4f and 8d. Below the antiferromagnetic Néel temperature TN = 21 K several interesting magnetic and optical phenomena are observed. In this talk, we discuss unusually rich optical absorption spectra, antiferromagnetic linear dichroism, second harmonic generation, and some other optical phenomena.

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