

#### Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet

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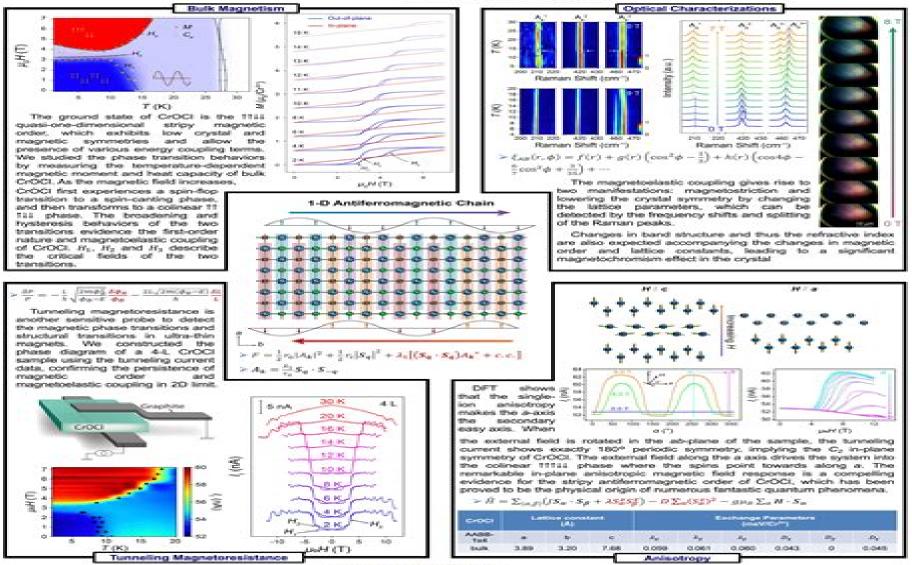
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Summary and Reference

We verified the magnetoelastic coupling effect in exclusived CrOCI by Raman spectroscopy and investigated the magnetism of few-layer CrOCI by tunneling magnetoresistance. Combining the characterization results with first-principle calculations, we uncovered the multi-step magnetic phase transitions under the external field along the easy axis down to 20 limit. Our findings not only advance the understanding of this unexplored promising material, but also reveal the rich physics and potential for spintronic devices of magnetoelastic materials.

[1] Nano Letters 22, 3 (2022).

# **Magnetic Phase Transitions**

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## **Magnetic Phase Transitions:**

Magnetic Phase Transitions ,1983 Magnetic Phase Transitions In Single Crystals Daivd P Belanger,2022-07-27 Magnetic crystals are ideal systems to study the universal properties of phase transitions particularly systems with quenched randomness and frustration Pure systems with different symmetries provide the foundation for studies in corresponding systems with quenched randomness Because phenomena near phase transitions have universal properties results from bulk magnetic crystals provide a basis for understanding phase transitions in films and nanoparticles as well as many non magnetic materials This motivates the subject of this book which discusses phase transitions studies in magnetic crystals from the perspective of an experimentalist who has done extensive work in the field The advantage is that many experimental techniques are described in sufficient detail for a good understanding of the results and their comparison to theory

Magnetic Phase Transitions (Volume 48). Ausloos M.,1983 Magnetic Phase Transitions M. Ausloos, R.I. Elliott, 2012-12-06 The present volume contains the courses given at a Summer School on Magne tic Phase Transitions held at the Ettore Majorana Centre for Scientific Culture at Erice Trapani Italy in July 1983 under the auspices of the Condensed Matter Division of the European Physical Society in their series on Materials Science and Technology The student participants came from West Germany Great Britain Brazil Greece Switzerland Sweden Italy USA and The Netherlands The lecturers came from various European countries Israel USA and Canada The atmosphere at the meeting was excellent and a good spirit of companion ship developed during two weeks of working together. The spread of interests among the lecturers and students was divers ified but balanced The main lec turing contributions are reported in this volume They represent up to date reviews in a pedagogical style In addition informal presentations on cur rent research interests were made which have not been included The school attempted to summarize the current position on the properties of magnetic phase transitions from several points of view The range and scope of the oretical techniques and of particular aspects of materials or phenomena as observed experimentally were very well put forward by the lecturers The grouping of manuscripts in chapters does not represent however the sched ule followed during the school Contributions on mean field approximations and renormalization group methods either for static or dynamic phenomena can be found at various places in the following Structural and Magnetic Phase Transitions in Minerals S. Ghose, J.M.D. Coey, E. Salje, 2012-12-06 This volume in sections Advances in Physical Geochemistry presents the latest synthesis of theory and experimental data pertaining to structural and magnetic phase transitions in a variety of geochemically important minerals. The book is the first to cover the impact of this rapidly progressing area of solid state physics in earth sciences and reflects its growing significance for mineralogy and High-field Magnetic Phase Transitions Maurits Willem van Tol,1972 Magnetic Phase Transitions Marcel petrology Ausloos, Roger J. Elliott, 1983 The present volume contains the courses given at a Summer School on Magne tic Phase Transitions held at the Ettore Majorana Centre for Scientific Culture at Erice Trapani Italy in July 1983 under the auspices of

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<u>Experimental Investigations of Magnetic Phase Transitions</u> James Alexander Brug,1984 <u>Magnetic Resonance of Phase Transitions</u> Frank J. Owens, Charles P. Poole, Horacio A. Farach, 2013-10-22 Magnetic Resonance of Phase Transitions shows how the effects of phase transitions are manifested in the magnetic resonance data The book discusses the basic concepts of

structural phase and magnetic resonance various types of magnetic resonances and their underlying principles and the radiofrequency methods of nuclear magnetic resonance. The text also describes quadrupole methods the microwave technique of electron spin resonance and the M ssbauer effect. Phase transitions in various systems such as fluids liquid crystals and crystals including paramagnets and ferroelectrics are also considered. Physicists and scientists working in energetic materials laboratories will find the book invaluable.

Integral Systems, Solid State Physics and Theory of Phase Transitions V. V. Dodonov, Vladimir Ivanovich Man'ko, 1991.

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