



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

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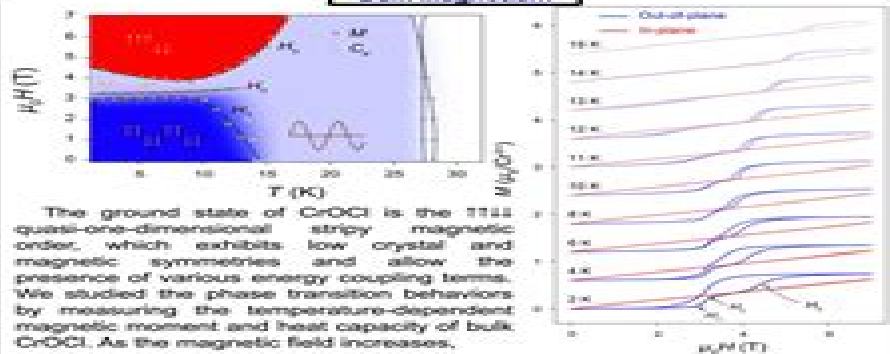
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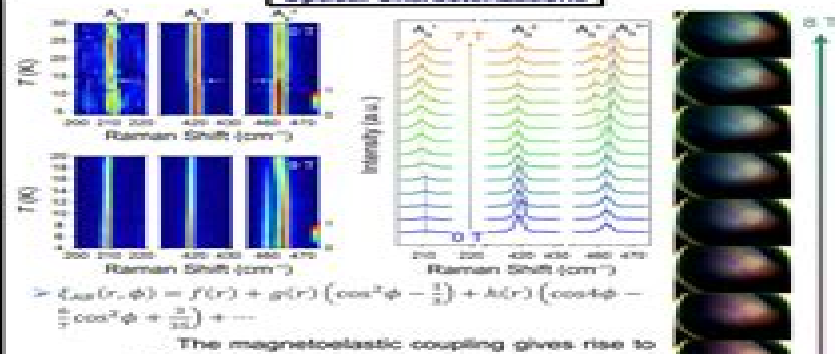
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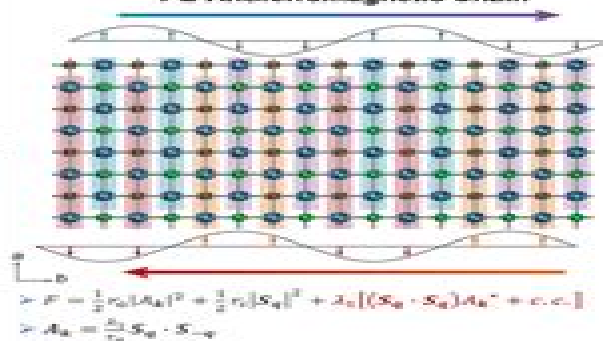
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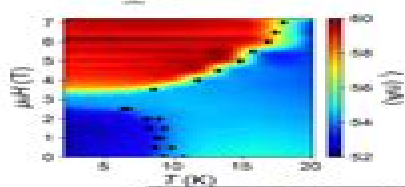
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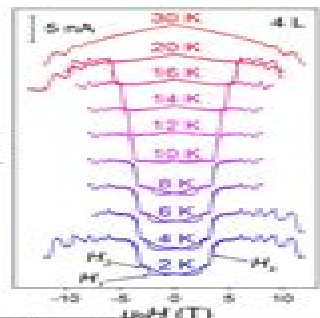
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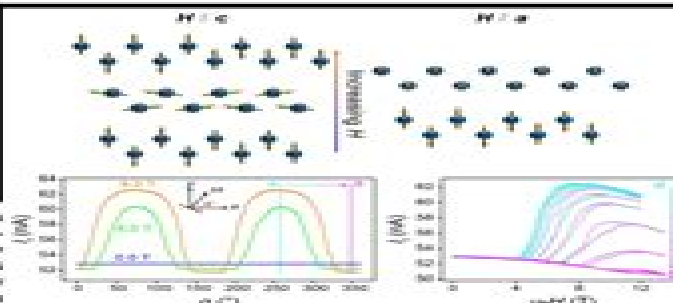
Tunneling magnetoresistance is another sensitive probe to detect the magnetic phase transitions and structural transitions in ultra-thin magnets. We constructed the phase diagram of a 4-L CrOCl sample using the tunneling current data, confirming the persistence of magnetic order and magnetoelastic coupling in 2D limit.



Tunneling Magnetoresistance



DFT shows that the single-ion anisotropy makes the a -axis the secondary easy axis. When



the external field is rotated in the ab -plane of the sample, the tunneling current shows exactly 180° periodic symmetry, implying the C_2 in-plane symmetry of CrOCl. The external field along the a axis drives the system into the collinear 1111 phase where the spins point towards along a . The remarkable in-plane anisotropic magnetic field response is a compelling evidence for the stripy antiferromagnetic order of CrOCl, which has been proved to be the physical origin of numerous fantastic quantum phenomena.

$$H = \sum_{i,j} J_{ij} (S_i \cdot S_j + 2 S_i^z S_j^z) - D \sum_i (S_i^z)^2 - g \mu_B \sum_i \mathbf{H} \cdot \mathbf{S}_i$$

CrOCl	Lattice constant (Å)			Exchange Parameters (meV/Cr)					
Axis	a	b	c	J_{ab}	J_{bc}	J_{ac}	D_a	D_b	D_c
bulk	3.89	3.20	7.68	0.059	0.061	0.060	0.043	0	0.045

Anisotropy

Summary and Reference

We verified the magnetoelastic coupling effect in exfoliated CrOCl by Raman spectroscopy and investigated the magnetism of few-layer CrOCl 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 2D 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).

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