

APCTP Workshop on Multiferroics

Mr. Qian Chen (D3, Tokunaga Lab.) is going to give a poster presentation at the international workshop on multiferroics held on October 19-21 at the Hongo Campus of the University of Tokyo (http://crystal.k.u-tokyo.ac.jp/14th_apctp/).



He has studied the high-field properties of an Ising antiferromagnet $\text{Fe}_2\text{Mo}_3\text{O}_8$ with a honeycomb lattice and found an unusual six-step structure in the magnetization process before saturation. Furthermore, he observed a similar multi-step structure in magnetic field dependence of the electric polarization and found a giant magnetoelectric effect of up to $12,000 \mu\text{C}/\text{m}^2$. The people who would like to know the origin of this unique magnetic field response are welcome to his poster presentation (PS-14) or the arXiv paper (<https://arxiv.org/abs/2309.10583>).