【无机化学论坛】Sulfates of Iron Group Metals: Structures and Magnetism

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地点：北京大学化学学院A区717报告厅.

**报告摘要：**

For several years we have been studying minerals made in the laboratory to complement those known in nature. We are able to obtain samples which are pure (that is containing less of other metals) for studying their crystal structures and magnetism as well as their magnetic structures by neutron where possible. Among these materials a range of known and novel materials have been made and characterized. I will present these systems and in particular will highlight several interesting aspects that were not known: for example, (a) idle moments in triple chains of copper, (b) cycloidal magnetic structure, (c) magnetic hardness exceeding 60 kOe and others. In particular, I will present the most recent work of an N-type ferrimagnet consisting of two sublattices of equal number of Fe(III), that is with very weak magnetic anisotropy, studied on a single crystal. This work reveals new light on the subject that have not been invoked so far.