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Synthesis and phase analysis of the polycrystalline $K_3Cu_3AlO_2(SO_4)_4$

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Polycrystalline $K_3Cu_3AlO_2(SO_4)_4$ can be successfully produced synthetically. The synthesized phase corresponds to alumoklyuchevskite, and is interesting as a spin liquid material for fundamental research of magnetism. The poster shows the results of the investigations with different characterization methods, i.e. powder x-ray diffraction (PXRD), electron dispersive x-ray analysis (EDX) and difference thermo analysis (DTA).

Primary author: REITBERGER, Niclas

Co-authors: SCHEIBLICH, Clemens (Student); VANWELL, Natalija (LMU)

Presenter: REITBERGER, Niclas

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