

4d Transition-Metal Substitution into magnetically frustrated $A_1B_3Si_2Sn_7O_{16}$ structures

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Includes an overview of the $A_{1</sub>B_{3</sub>Si_{2</sub>Sn_{7</sub>O_{16</sub>}}$ (A=Fe, B=Fe,Mn) structural family and it's bi-layered structure, containing both a magnetically frustrated oxide layer and a non-magnetic $FeSn_6</sub>$ cluster layer. It then covers the substitution of Fe with Ru in cluster layer and the effect this has on it's magnetic structure, analysed using NPD, with comparison to the effect of other substitution schemes that have been performed on different structural sites.

Level of Expertise

Student

Speakers Gender

Male

Do you wish to take part in the poster slam

No

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