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Characterization of the Delafossite solid solution series $\text{NaYb}_{1-x}\text{Lu}_x\text{S}_2$

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To get further insight into electron spin interactions of at present intensely investigated quantum spin liquid materials, we decided to substitute Lu^{3+} into NaYbS_2 , which is one of the most promising candidates to host this unique magnetic ground state. In this contribution, we discuss the crystallographic aspects of this solid solution series and give an outlook on the evolution of the electron spin interactions, investigated by ESR spectroscopy and magnetization measurements.

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