

Abstract Submitted
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Magnetic and structural studies of double perovskites $\text{La}(2-x)\text{Sr}(x)\text{RuCrO}_6$ HIROTOSHI TERASHITA, Reserch Center Juelich — The B-site ordered double perovskites $\text{La}(2-x)\text{Sr}(x)\text{RuCrO}_6$ were prepared using solid state reaction. X-ray powder diffraction showed all specimens to be single phase. The best structural model is a cubic structure with space group Fm-3m, in which RuO6 and CrO6 octahedra are alternatively located (rock salt type). Samples with $0 \leq x \leq 1$ show antiferromagnetic behavior with $T_N \sim 300\text{K}$. Anomaly, which may result from charge-ordering, is observed below T_N .

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