

## Phase separation in paramagnetic $\text{Eu}_{0.6}\text{La}_{0.4-x}\text{Sr}_x\text{MnO}_3$

Eremina R., Fazlizhanov I., Yatsyk I., Sharipov K., Pyataev A., Krug Von Nidda H., Pascher N., Loidl A., Glazyrin K., Mukovskii Y.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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### Abstract

We investigate the magnetic properties of the system  $\text{Eu}_{0.6}\text{La}_{0.4-x}\text{Sr}_x\text{MnO}_3$  with  $0.1 \leq x \leq 0.3$  by means of magnetic susceptibility and electron spin resonance measurements. Ferromagnetic resonance signals are observed in the paramagnetic regime from above the magnetic ordering temperature  $T_N$  up to approximately room temperature. This regime is characterized by the coexistence of ferromagnetic entities within the globally paramagnetic phase. The results are compared to the Griffiths scenario reported in  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ . © 2011 American Physical Society.

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