## Mössbauer investigations of magnetic system stratification in europium and thulium ferromanganites

Bashkirov S., Boltakova N., Parfenov V., Nazipov R., Pyataev A., Gabidullin I. *Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia* 

## **Abstract**

Strontium-substituted ferromanganites of europium and thulium were investigated. Samples of Eu0.65Sr0.35Mn 1-xFexO3 and Tm0.65Sr 0.35Mn1-xFexO3 were prepared using ceramic processing. Based on the data from X-ray analysis, the samples with europium had a perovskite lattice, whereas the thulium samples were crystallized in an ilmenite lattice. Stratification of the magnetic subsystem was observed in the Mössbauer spectra of certain samples at T  $\approx$  300 K. © Allerton Press, Inc., 2010.

http://dx.doi.org/10.3103/S1062873810030123