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Einladung zum Seminar

Andreij Maljuk

HZB, Berlin

„ Growth of SrFeO₃ single crystals: anti-cracking tactics “

In the talk I present our results of the SrFeO_{3-y} crystal growth by the crucible-free floating zone technique. The main approaches how the cracking effect could be strongly suppressed are considered for the image furnace. High-pressure oxygen post-growth treatment was applied in order to get fully oxidized SrFeO₃ single crystals. Based on results of magnetic susceptibility, DTA-TG, Mössbauer and Raman measurements we demonstrate that oxygen deficiency is less than 0.01 ($y < 0.01$) for 5 kbar annealed samples. Neutron and X-ray diffraction experiments verify the high-quality of annealed crystals with mosaicity of about 0.5 degree.

Host: S. Bühler-Paschen

**Donnerstag, 27. August 2009, 11:00 Uhr
Seminarraum 138B, 7. OG, Turm C (rot)
Wiedner Hauptstraße 8-10
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