MaReMaS-Seminar
Magnetic Resonance and Materials Science

Tuesday, 22\textsuperscript{nd} May 2012, 11:00 am, SR 225, Linnéstr. 5

\textit{Metals under nanoconfinement}

\textbf{Professor Elena V. Charnaya}

head of the „Quantum acoustics and ultrasonic spectroscopy“ laboratory, Physics department, St. Petersburg State University, Russia

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The report reviews recent studies of some metals (gallium, indium, mercury, tin, gallium-indium and gallium-tin alloys, sodium) embedded into nanoporous matrices (porous glasses and opal matrices). Information about variations of the Knight shift with temperature and pore size, size-effects on the melting-freezing transitions and formation of different crystalline phases, slow-down of self-diffusion in liquid and supercooled confined metals, about superconductivity and magnetic instabilities was obtained by NMR, magnitometry, and ultrasonic techniques.

Prof. Dr. Jürgen Haase