Physik-Kolloquium

Dienstag, den 08.06.2010, 17:00 Uhr

Prof. Dr. James S. Schilling
Department of Physics, Washington University St. Louis, Missouri, USA

Role of High Pressure in Basic, Materials, and Life Sciences

The increasing popularity of high pressure studies is fueled by further development of the diamond-anvil cell which can now generate pressures as high as several million atmospheres. Four of the most important applications of high pressures in today’s science are: (1) to identify and characterize materials residing deep within our earth or other heavenly bodies, (2) to synthesize useful materials, (3) to determine the effect of pressure on living organisms and explore the conditions favorable for life on earth and other planets, and (4) to uncover underlying systematics and critically test theoretical models in condensed matter physics. In this colloquium I will attempt to capture some of the current excitement in this field by offering brief synopses of selected experiments.

Ort: Hörsaal für Theoretische Physik, Linnéstraße 5
Alle Teilnehmer sind ab 16:30 Uhr zu Kaffee und Kuchen in die Aula eingeladen.