SFB 608

Einladung zum Kolloquium

- Ort: Universität zu Köln II. Physikalisches Institut Seminarraum 201
- **Zeit:** Mittwoch, 11.12.2002, 15 Uhr c.t.
- **Sprecher:** Dr. S.S. Saxena Cavendish Laboratory, University of Cambridge, UK
- **Thema:** Pressure Induced Quantum Critical Phenomena and Suprconductivity.

The collapse of antiferromagentic order as a function of some quantum tuning parameter such as carrier density or hydrostatic pressure is often accompanied by a region of superconductivity. The corresponding phenomenon in the potentially simpler case of itinerant-electron ferromagnetism, however, remains more illusive. We consider the reasons why this may be so and summarize evidence suggesting that the obstacles to observing the phenomenon are apparently overcome in metallic ferromagnets such as UGe₂, ZrZn₂, URhGe and even Iron.

Gez. Prof. Abd-Elmeguid