



E I N L A D U N G

zum

V E R A - S E M I N A R

von

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Direct and indirect measurements for nuclear astrophysics at FRANZ and GSI

The Gesellschaft für Schwerionenforschung mbH (GSI) offers opportunities for direct and indirect measurements to study nuclear reactions of astrophysical interest on radioactive nuclei. Direct measurements, including (p,γ) and (α,γ) reactions, are possible at the experimental storage ring, while the LAND facility allows to determine reaction rates via Coulomb-breakup and charge-exchange reactions.

The "Frankfurter Neutronenquelle am Stern-Gerlach-Zentrum" (FRANZ), which is currently under development, will be the strongest neutron source in the world in the astrophysically interesting neutron energy regime. It will be about 3 orders of magnitude more intense than the well-established neutron source at the Research Center Karlsruhe (FZK). FRANZ will allow direct measurements of neutron-induced reactions with radioactive samples.

Donnerstag, 15. Jänner 2009, 16:30 Uhr

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",
1. Stock, Seminarraum von VERA**