



EINLADUNG

zum

VERA - SEMINAR

von

Irshad AHMAD

Physics Division, Argonne National Laboratory, USA

Structure of Actinide and Superheavy Elements

It is known that elements with certain atomic numbers, namely inert gases, are chemically more stable than all other elements. In the same way, because of shell structure certain closed shell nuclei are more stable than other nuclei. It is thus expected that there will be a region of enhanced stability beyond the actinide region. Theories predict different magic proton numbers for this stability: 114, 120 and 126. We have made recent measurements on heavy element single particle states which can check the validity of these calculations. These measurements and estimates of the half-lives of superheavy elements will be discussed.

Tuesday, 15. Mai 2007, 14:00 Uhr s.t.

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