



EINLADUNG

zum

VERA - SEMINAR

von

**Heinz Hugo LOOSLI**

Physikalisches Institut der Universität Bern

**New Ar-39 measurements in granite samples  
from Hiroshima and Nagasaki**

Risk factors for cancer after an irradiation are mainly derived from Survivors in Hiroshima and Nagasaki.

However, fluxes of fast neutrons, which contribute a considerable part to the dosis, are in Hiroshima only measured to a limited distance (and even with large errors), and for Nagasaki only calculations are available.

By Ar-39 from the  $^{39}\text{K}(\text{n},\text{p})$  reaction new (precise) data could be determined in Hiroshima and for the first time in Nagasaki. The results are presented in the talk and their influence for irradiation protection is discussed.

A main topic is the presentation of new measurements of cross sections of the  $^{39}\text{K}(\text{n},\text{p})^{39}\text{Ar}$  reaction as a function of energy, gained in irradiation experiments, done by a group around Werner Rühm, München.

**Donnerstag, 18. Dezember 2008, 16:30 Uhr**

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