

INSTITUT FÜR ISOTOPENFORSCHUNG UND KERNPHYSIK
DER UNIVERSITÄT WIEN

E I N L A D U N G

zum

S E M I N A R V O R T R A G

von

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Yugoslav contributions to neutrino physics

Experimental studies of a number of rare nuclear processes related to the physics of the neutrino will be reported. These include the study of the Low-energy Gamma-ray Induced Nuclear Transmutation processes (LeGINT), which share both the initial and final states with neutrino capture processes, and potentially represent the source of background to geochemical solar neutrino detectors. The case of the thallium solar neutrino detector will be briefly mentioned, to be discussed in more detail in a separate Seminar by M. K. Pavicevic. The study of the number of double beta decays will also be reported, including the first detection of one double proton beta decay which possibly includes the neutrinoless component (Zn-64), as well as an interesting case which may hopefully demonstrate the existence of weak currents of alien handedness, which are hardly observable otherwise (Fe-54). Most of the measurements were performed at the low-background gamma-ray facility at the University of Novi Sad.

Dienstag, 18. Juni 2002, 14:00 Uhr

1090 Wien, Währingerstr. 17, "Kavalierstrakt",
1. Stock, Seminarraum von VERA

P. Hille

W. Kutschera