

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

Ken Nagamine

Meson Science Laboratory, Institute of Materials Structure Science,
High Energy Accelerator Research Organization (KEK),
Tsukuba, Ibaraki, Japan

Muons for better human life
- Fusion Energy, Life Science and Disasters Prevention -

Muons, because of their unique features as “heavy” electrons, radioactive polarized “light” protons, and heavy electromagnetic particles, can contribute to:

- (i) promotion of cyclic nuclear fusion reactions,
- (ii) sensitive microscopic magnetic probes in biophysical and condensed matter systems, and
- (iii) radiography of kilometer size substances.

Thus, muons can be important for a new process for production of atomic energy, new functional biophysics and prevention of natural disasters associated with volcanic eruptions and earthquakes. Current research activities of these types in progress, and future directions, will be presented.

Mittwoch, 04. Juni 2003, 16:30 Uhr

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

P. Hille

W. Kutschera