INSTITUT FÜR ISOTOPENFORSCHUNG UND KERNPHYSIK
DER UNIVERSITÄT WIEN

E I N L A D U N G

zum

I N S T I T U T S S E M I N A R

von

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Max-Planck-Institut für Kernphysik, Heidelberg

Laboratory astrophysics: the H_3^+ molecular ion on earth and in space

The triatomic hydrogen molecular ion H_3^+ is the simplest polyatomic molecule and it plays a pivotal role for the chemistry of the interstellar medium. Despite its structural simplicity H_3^+ and its isotopic variants host a wealth of surprising properties that are still puzzling experimental and theoretical physicists. I will outline the role of H_3^+ in interstellar clouds with special focus on the dissociative electron recombination before I present experiments carried out at the Test Storage Ring (TSR) of the Max-Planck-Institut für Kernphysik in Heidelberg.

Donnerstag, 04. Mai 2006, 16:30 Uhr

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

R. Golser W. Kutschera