

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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**Elemental mapping of Mars using the 2001  
Mars Odyssey Gamma-Ray and Neutron Spectrometers**

Mars Odyssey, launched in April 2001, has been successfully conducting its mission, including the determination of the elemental composition of the surface of Mars and understanding of water ice distributions on Mars. This talk will give a general overview of the 2001 Mars Odyssey program and then focus on the Mars Odyssey's elemental-mapping spectrometers that include the gamma ray spectrometer, the Neutron Spectrometer, and the High Energy Neutron Detector. These spectrometers have confirmed the presence of water ice at both the North and South poles as well as fairly high hydrogen concentrations for parts of the equatorial regions. Details of the Martian gamma ray spectra and recent elemental maps of Mars obtained by the gamma ray spectrometer will be presented. New understanding of Mars using GRS data will be also demonstrated.

**Donnerstag, 15. Juli 2004, 16:30 Uhr**

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

P. Hille

W. Kutschera