



EINLADUNG  
zum  
VERA - SEMINAR  
von

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**The Physics of Accelerator Mass Spectrometry**

Since AMS was invented more than 30 years ago, significant progress has been made in instrumentation and the performance. Hereby, advances in technologies played certainly an important role. But many improvements were only possible due to the better understanding of the physics involved in the measuring process. This especially applies to the development of new compact AMS instruments, which are meanwhile competitive to larger instruments for many applications. It will be shown which steps were essential in these developments and why excellent performance can be obtained for some isotopes but not for others.

In the second part, the question is discussed, to what extent the knowledge gained during this development of small instruments can also be applied for improving the performance of larger instruments.

**Donnerstag, 3. Dezember 2009, 16:30 Uhr**

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",  
1. Stock, Victor-Franz-Hess-Hörsaal**