

DESY Seminar

25 January 2005, 17:00, DESY Hörsaal

M. Pohl (Université de Genève)

FAST, towards a ppm measurement of the Fermi coupling constant

The goal of the *FAST* experiment is to measure the muon lifetime with ppm precision. Including all experimental and theoretical uncertainties, this will lead to an order of magnitude improvement in the precision of the Fermi coupling constant of the weak charged current. The full hardware of *FAST* has been completed and commissioned in 2004. The experimental techniques used by *FAST* will be discussed and compared to concurrent approaches. Progress towards a first significant improvement in the muon lifetime will be presented.

- Tea and cookies will be served at 16:45 in the lobby.
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels also in the lobby.