

# DESY Seminar

23 November 2004, 17:00, DESY Hörsaal

S. Rock (SLAC)

*Parity violation in fixed-target Møller*

*Scattering and the running of  $\sin^2 \mathbf{q}_W$*

At the E158 experiment at SLAC we have measured the parity-violating asymmetry in fixed target electron-electron (Møller) scattering at low  $Q^2$ . Within the standard model this determines  $\sin^2 \mathbf{q}_W$ . The running of  $\sin^2 \mathbf{q}_W$  with  $Q^2$  from the Z pole is established with 7s accuracy. The results limit deviations from the Standard Model at the few TeV scale.

- 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.