

FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING

PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING

MLL-KOLLOQUIUM

Donnerstag, 10.11.2011, 16¹⁵ Uhr

Hörsaal der LMU in Garching, Am Coulombwall 1
Treffen zum gemeinsamen Kaffee 16 Uhr

Prof. Antonio Pich

IFIC Valencia/Spain, z.Z. Gast am Exzellenz-Cluster 'Universe'

Recent Progress on Tau-Lepton Physics

The large tau data samples collected at the B Factories provide precise tests of the electro-weak and strong interactions. The present status of some selected topics on tau physics will be presented, such as charged-current universality tests, bounds on lepton-flavour violation, the determination of α_s from the inclusive tau hadronic width and the measurement of V_{us} through the Cabibbo-suppressed decays of the tau. The spectral distribution of the final hadrons in the tau decay contains also important information on non-perturbative QCD aspects, with implications for the Standard Model prediction of the muon anomalous magnetic moment ($g-2$). An updated discussion of these subjects will be given.

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