FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING

PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING

MLL-KOLLOQUIUM

Donnerstag, 14.06.2012, 16^{15} Uhr

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

Prof. Willibald Plessas

Univ. Graz, Austria

Baryon Properties Within the Relativistic Constituent-Quark Model

I address the investigation of properties of low-energy baryons in the framework of the relativistic constituent-quark model. Beyond spectroscopy, much progress has been achieved over the recent years with regard to the relativistically invariant description of the baryon electromagnetic and axial form factors, the strong meson-baryon vertex form factors and the hadronic decays of baryon resonances. While the validity of the quark models had so far mostly been restricted to light and strange baryons, we have now succeeded to build a relativistic constituent-quark model covering all existing baryons from the nucleon up to the triple-bottom Ω_{bbb} in a unified manner.

gez. Peter Thirolf
Tel. 289-14064

gez. Norbert Kaiser
Tel. 289-12367