

**FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING**

**PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING**

MLL-KOLLOQUIUM

Donnerstag, 25.01.2018, 16¹⁵ Uhr

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

Dr. Gudrun Heinrich

(Max-Planck-Institut f. Physik, München)

Pushing the Precision Frontier in Collider Physics

The interplay between precise theory predictions and experimental measurements has written a success story in particle physics. After a brief journey into history, I will review recent developments which have led to 'revolutions' with regard to precision calculations in perturbative quantum field theory.

The second part of the talk will focus on particle physics phenomenology, in particular on theoretical studies to scrutinize the Higgs sector, which may open a window to physics beyond the Standard Model.

gez. Peter Thirolf
Tel. 289-14064

gez. Norbert Kaiser
Tel. 289-12367