



## Einladung zum Vortrag

“Precision phenomenology for the Large Hadron Collider”

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**Ort:** Lise-Meitner-Hörsaal  
9. Boltzmannngasse 5, 1. Stock

**Abstract:**

As the LHC has finished its second run of data-taking, an unprecedented wealth of data has been recorded. In absence of discoveries of new particles and interactions besides the much celebrated Higgs boson's, high precision data is used to scrutinise our established theoretical model of the interactions of elementary particles, the Standard Model of Particle Physics. For this comparison to be meaningful, the accuracy of the theoretical predictions must match that of the data.

In achieving this goal, the inclusion of corrections due to the electroweak part of the Standard Model plays a crucial role. In addition, owing to its structure as a broken gauge symmetry, it also introduces a broad spectrum of new phenomena that are important to include in the Standard Model backgrounds to new physics searches.

Im Rahmen des Vortrages findet eine Lehrprobe zum Thema  
„Periodic Potentials in Quantum Theory“ statt.