

## **Theoriekolloquium**

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Am **7. Januar 2016** um **14.15 Uhr** in **W2 1-143** hält

**Herr Dr. Ralf Lehnert (Hannover)**

einen Vortrag mit dem Titel

### **Does Relativity Theory Hold Exactly?**

Relativity Theory is a cornerstone of physics. Since its conception over a century ago, it has been scrutinized experimentally with ever increasing precision, but no credible evidence for departures from its underlying symmetry - Lorentz invariance - has been found to date. However, recent theoretical research has established that minute violations of Lorentz symmetry can be accommodated in various approaches to physics beyond the Standard Model. This seminar provides a brief overview of our group's efforts in this research field. A variety of mechanisms for Lorentz breakdown are reviewed, the effective-field-theory test framework for the emerging low-energy effects is introduced, and a number of present-day and near-future experimental measurements in this context are surveyed.

Interessierte sind herzlich eingeladen.

gez. Prof. Dr. Claus Lämmerzahl