



# Sommerfeld Theory Colloquium

Prof. Petr Horava

Berkeley University, USA

Quantum Gravity with Anisotropic Scaling and the Multicritical Universe

The problem of understanding how gravity fits together with other fundamental interactions of matter has been at the forefront of theoretical research for many decades, leading to the rich framework of string theory and M-theory. In this framework, many fundamental questions are being resolved, but many remain quite mysterious, suggesting that search for novel concepts may be well justified. I review the recent concept of multicritical gravity with Lifshitz-type anisotropic scaling, and its applications in areas ranging from particle phenomenology beyond the standard model to non-relativistic versions of the holographic AdS/CFT correspondence.

Wednesday, 23 October 2013, 16:15h, Room A348/349, Theresienstr. 37/III

Prof. G. Dvali