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CENTER FOR THEORETICAL PHYSICS



# Arnold Sommerfeld Lecture Series

Professor Hermann Nicolai

MPI for Gravitational Physics, Golm

**Public Lecture:**

## Quantum Theory and Gravity: A Heavenly Marriage?

Unifying quantum mechanics and gravity to form a consistent theory of quantum gravity is commonly considered the greatest challenge of present day theoretical physics. It remains unsolved in spite of enormous efforts. In this talk the fundamental problems will be described and some recent attempts at a solution will be motivated and explained in a pedagogical way.

**Tuesday, 29<sup>th</sup> June 2010, 17:15 h, Lecture Hall B 052, Theresienstr. 39, LMU**