



LUDWIG-
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UNIVERSITÄT
MÜNCHEN

ARNOLD SOMMERFELD

CENTER FOR THEORETICAL PHYSICS



Arnold Sommerfeld Lecture Series

Professor Juan Maldacena

IAS Princeton, USA

20th Anniversary Public Lecture:

**The meaning of spacetime: Black holes,
wormholes and quantum entanglement**

We start by describing the geometrical notions central to Einstein's theory of gravity. We then discuss current ideas for how spacetime geometry could emerge in a quantum theory of gravity. We will see that quantum entanglement plays a crucial role.

Thursday, July 3, 17:15 h, Room H030, Schellingstr. 4, LMU

Prof. Dieter Lüst