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ARNOLD SOMMERFELD  

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CENTER FOR THEORETICAL PHYSICS



# Arnold Sommerfeld Lecture Series

**Professor Nathan Seiberg**

**IAS Princeton, USA**

**Theory Colloquium:**

**Symmetries, Duality, and the Unity of Physics**

Global symmetries and gauge symmetries have played a crucial role in physics. The idea of duality demonstrates that gauge symmetries can be emergent and might not be fundamental. During the past decades it became clear that the circle of ideas about emergent gauge symmetries and duality is central in different branches of physics including Condensed Matter Physics, Quantum Field Theory, and Quantum Gravity. We will review these developments, which highlight the unity of physics.

**Wednesday, January 11, 2017, 16:15 h, Room A 348/349, Theresienstr. 37, LMU**

Prof. D. Lüst