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CENTER FOR THEORETICAL PHYSICS



# Arnold Sommerfeld Lecture Series

Professor Peter Zoller

Innsbruck University, Austria

**Public Lecture:  
Quantum Information and Condensed Matter  
Physics with Quantum Optical Systems**

We provide an introduction to quantum computing, quantum simulation and quantum communication for non-physicists. We summarize the basic concepts, and in particular summarize recent advances and prospects of building small model systems of quantum computers with atoms and ions.

**Tuesday, 19<sup>th</sup> January 2010, 17:15 h, Lecture Hall H 030, Schellingstr. 4, LMU**

Prof. J. v. Delft