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ARNOLD SOMMERFELD  
CENTER FOR THEORETICAL PHYSICS



# Arnold Sommerfeld Lecture Series

**Professor Hitoshi Murayama**  
**UC and LBL Berkeley, USA**  
**& Kavli IPMU, Tokyo, Japan**

**Public Lecture:**

## Quantum Universe

Where do we come from? Science is making progress on this age-old question of humankind. The Universe was once much smaller than the size of an atom. Small things mattered in the small Universe, where quantum physics dominated the scene. To understand the way the Universe is today, we have to solve remaining major puzzles. The Higgs boson that was discovered recently is holding our body together from evaporating in a nanosecond. But we still do not know what exactly it is. The mysterious dark matter is holding the galaxy together, and we would not have been born without it. But nobody has seen it directly. And what is the very beginning of the Universe?

**Tuesday, July 23, 2019, 17:15 h, Room B052, Theresienstr. 39, LMU**