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The Vienna Doctoral Programme on Complex Quantum Systems  
invites you to a

## Seminar Talk

by

**Myungshik Kim**

*Imperial College, London*

### ***Single-boson level operations in quantum optics***

Dirac writes that the mathematical structure of bosonic operations is one of the most fundamental results of quantum mechanics, which enables a unification of the wave and corpuscular theories of light. The technology to manipulate photons has been developed to subtract or to add single quanta from/to a bosonic system. In this talk, we discuss what we can do with the single-boson level operations for a test of principles of quantum mechanics and for quantum state engineering.

**Monday, 15 May 2017,  
17:00 get-together with coffee and snacks!**

Atominstitut, Stadionallee 2, 1020 Vienna

Hosted by: Caslav Brukner



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