
Seminar

Hybrid quantum optics: from nuclear clock to efficient quantum repeaters

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I will talk about my recent investigations in hybrid quantum optical methods and systems. These will involve combining different concepts from varied areas in physics as well as engineered combination of different physical systems. Such studies have tremendous prospects in precision metrology and quantum communications. In the first part of my talk I will discuss proposals for determining the nuclear clock transition precisely in Thorium isomer. In the second part of the talk I will put forward a repeater scheme using a novel hybrid molecule-superconducting quantum system.

Wednesday, Dec 10th 2014

4:00 PM (Tea/Coffee at 3:30 PM)

Seminar Hall, TCIS