



Seminar/Talk

# Cavity QED with Molecules

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MPL

Host: Mikhail Lemeshko

Concepts of cavity QED such as strong coupling or the Purcell effect are typically derived for two-level systems. These concepts can be translated to the more complex case of molecules where internal electronic transitions are inherently coupled to many molecular vibrational modes via Holstein-type interactions. We develop a quantum Langevin equations approach that provides analytical insight into the cavity-modified radiative emission branching ratio of a single molecule, the strong coupling regime with molecules and Frster resonance energy transfer between donor-acceptor molecules.

**Tuesday, April 23, 2019 11:00am - 12:00pm**

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



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