IST AUSTRIA
Institute of Science and Technology

Physical Sciences Seminar

# Cavity QED with Molecules


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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

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

This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: https://ist.ac.at/en/campus/how-to-get-here/ The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.