



Physical Sciences Seminar

Cavity enhanced superconductivity and superconductor-polaritons

Zachary Mark Raines (University of Maryland)

Host: Maskym Serbyn

Much work has been done on the strong interaction of matter and light in photonic resonators. In this talk, motivated by such work in cavity QED and the recent success of realizing exciton-polariton condensates in cavities, I will outline some of the interesting phenomena that can occur when superconductors are coupled to cavity photons. I will particularly focus on a scheme whereby superconductivity can be strengthened by coupling to photons and in analogy with exciton-polariton formation the creation of hybrid objects formed from photons and superconductor collective modes.

Tuesday, November 27, 2018 11:00am - 12:30pm

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: http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.