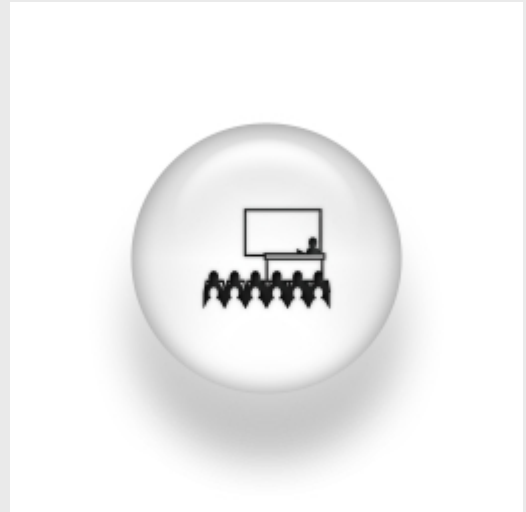


Shaping a quantum field with dissipation

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ABSTRACT:

I will present some on-going work on analogs of laser cooling of particles in the physics of single quantum emitters coupled to light. In a variety of physical systems ranging from cavity QED to plasmonics, the ability to drive the frequency of an atom leads to the possibility to tailor the atom-light coupling in such a way that non-classical states of quantum fields are generated by a dissipative process.