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#### **Strong coupling regime:**

- Rate of energy exchange > rate of loss
- Doublet structure in energy spectrum
- Splitting scales linearly with coupling strength

## Polaritonic enhancement of metal halide perovskite photovoltaic performance



# The A. D. Wright Lab

### spectroscopy · light-matter interactions · solar cells

### **Polaritonic Effects**

![](_page_0_Figure_14.jpeg)

 $\hbar\Omega_R = 2\mu_{ij}\sqrt{\frac{N}{V}\sqrt{\frac{\hbar\omega}{2\varepsilon_0}}}\sqrt{n+1}$ 

The **optical cavity** consists of two precisely spaced mirrors facing each other, acting like a trap for light, which can sustain only certain frequencies of radiation due to interference effects.

![](_page_0_Figure_19.jpeg)

![](_page_0_Picture_22.jpeg)