

Port 1

Cavity

Port 2

$a_1^{\text{in}} \longrightarrow$
 $a_1^{\text{out}} \longleftarrow$

κ_1

$\longleftarrow a \longrightarrow$
 $H = \hbar\omega_0 a^\dagger a$

κ_2

$\longleftarrow a_2^{\text{in}}$
 $\longrightarrow a_2^{\text{out}}$