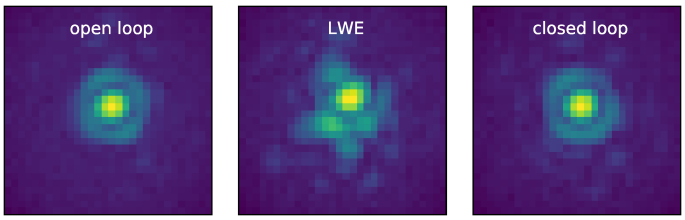
open loop
LWE
closed loop