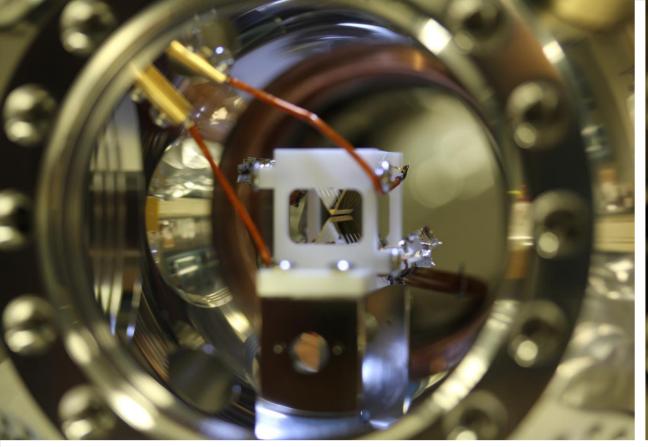
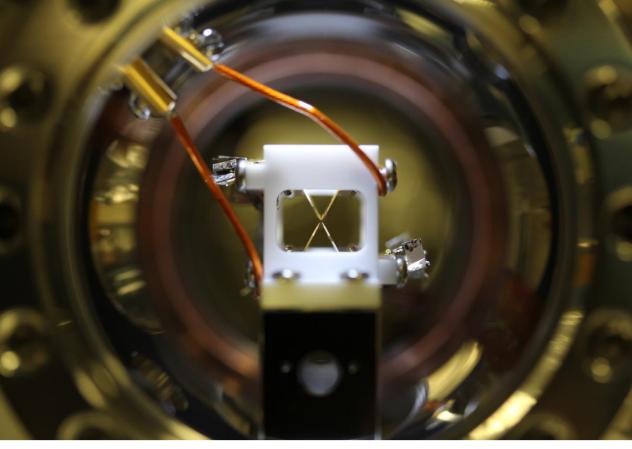
Gates Lab

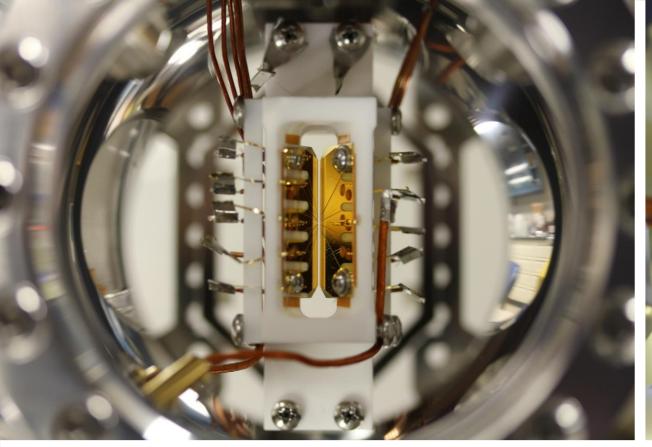
https://linkelab.umd.edu/

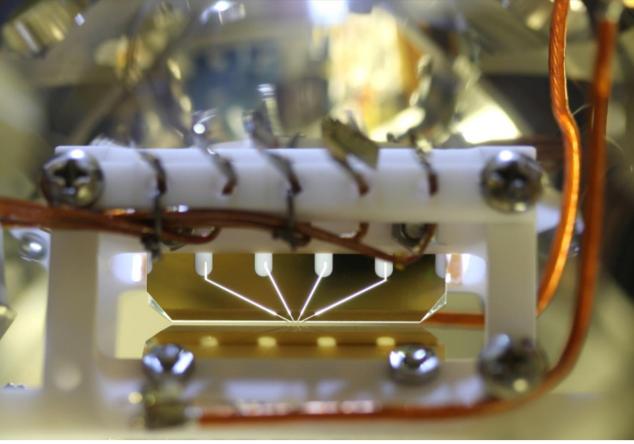
¹⁷¹Yb⁺ The qubit **Experiment Setup** ${}^{2}P_{3/2}$ Δ=66 THz Δ =33 THz ${}^{2}P_{1/2}$ detection 355 nm optics ion chain global ${}^{2}S_{1/2}$ $\omega_{\rm HF} = 12.6\,GHz$ Raman beam individual Raman beams control rf signals beam splitter



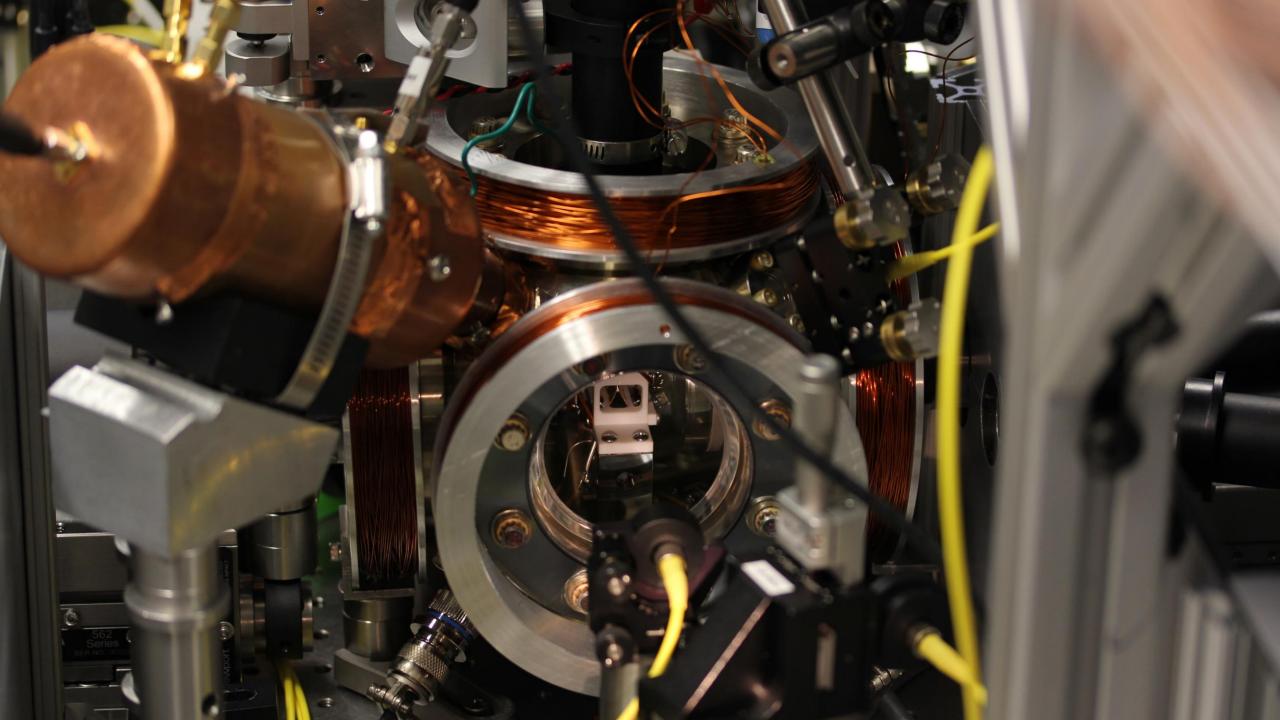


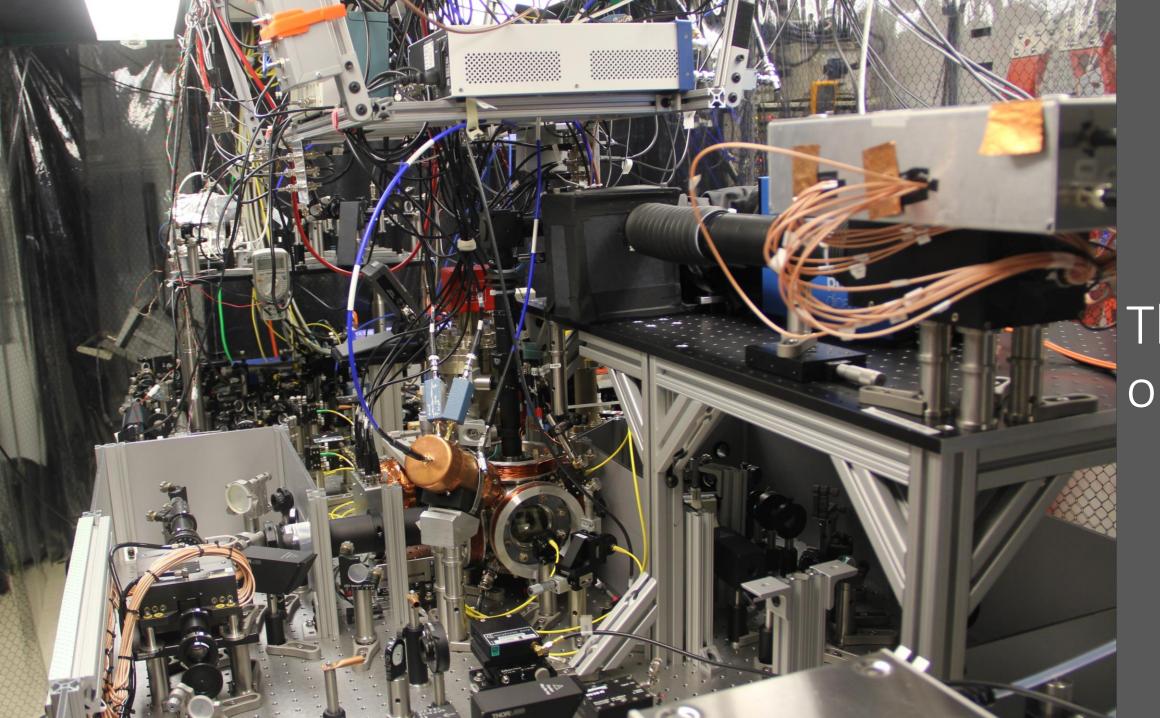
The Blade trap (looking along the ion chain)



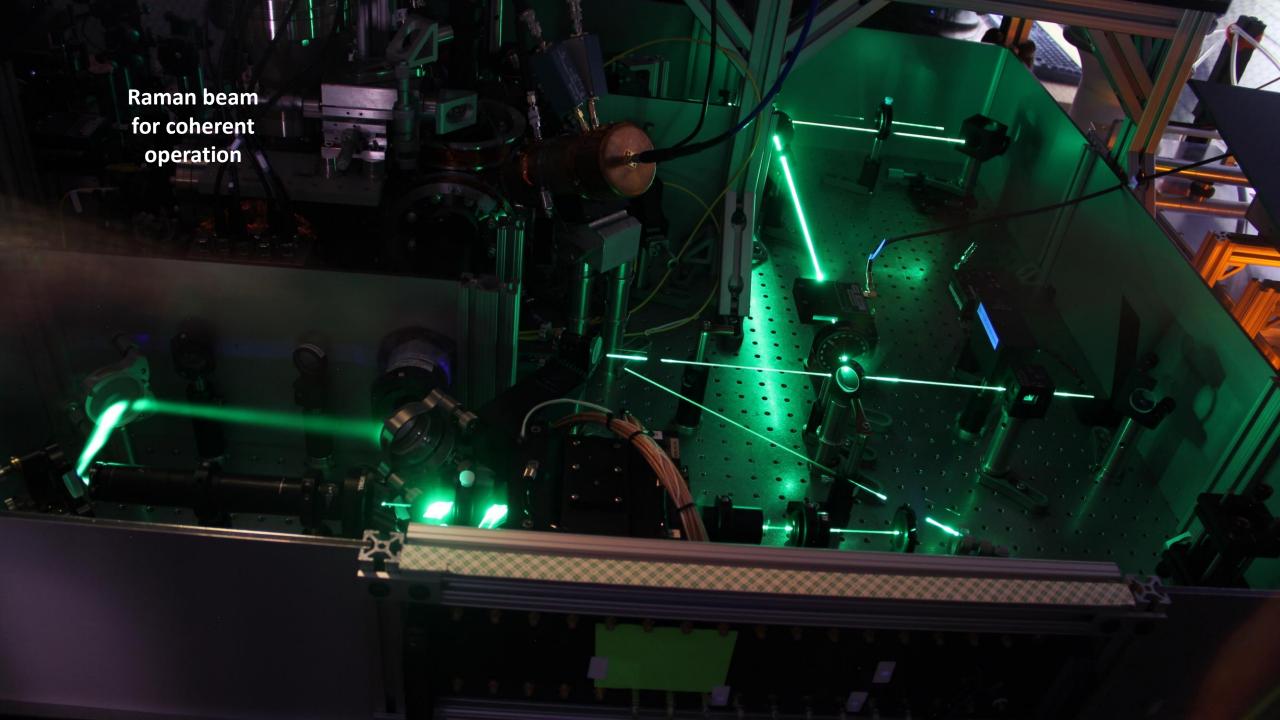


The Blade trap (looking perpendicular to the chainalong the Raman beam)





The optics



The Experiment

