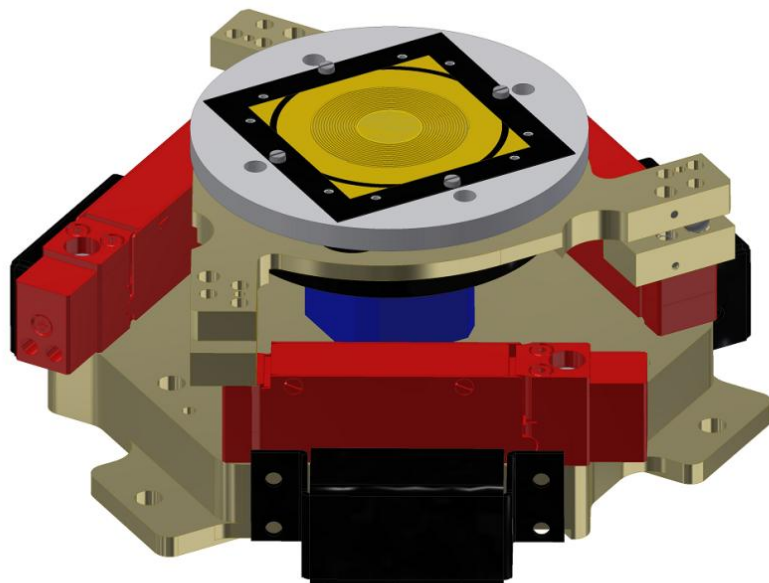




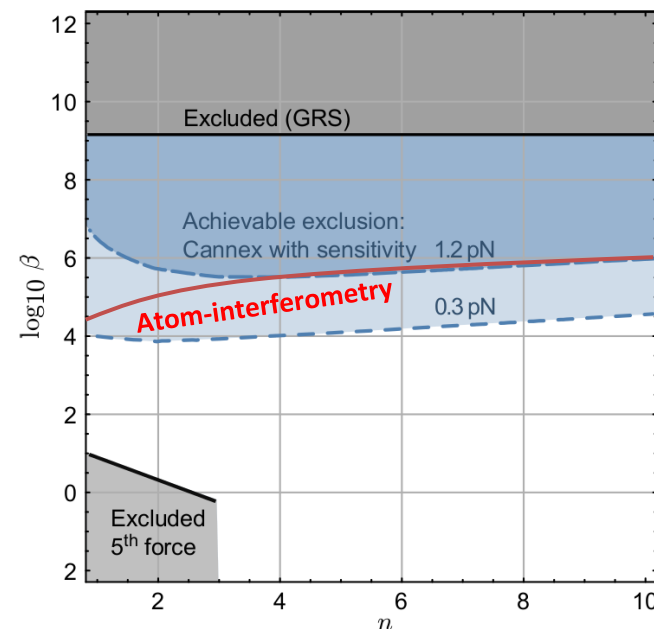
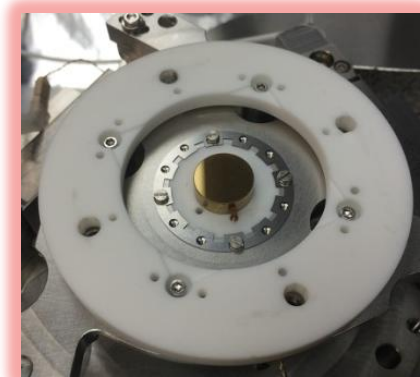
Force sensor for Chameleon a candidate for dark energy



spring constant : 0.6 N/m
 precision: 0.1 ppm, capacitance bridge
 scanning range: 10 – 20 μm
 thermal control: 1 mK , at room temperature
 parallelism: <math><10 \mu\text{rad}</math>

Lower plate

Upper plate/ force sensor





Force sensor for Chameleon a candidate for dark energy

Geometric anti-spring (GAS) filters

1.6 m pendulum

Eddy current dampers

Reference

GAS filter + pendulum

GAS filter + pendulum + Eddy Current dampers + Vacuum

