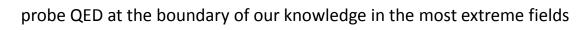
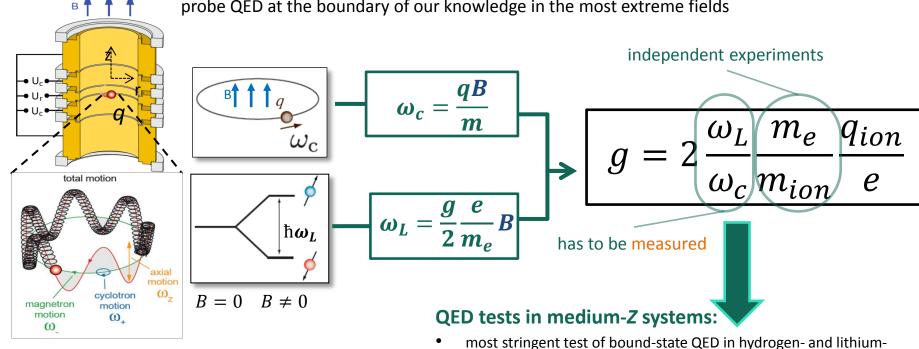
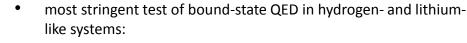
The ALPHATRAP g-Factor Experiment

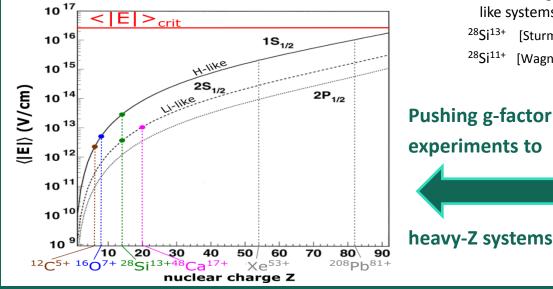






²⁸Si¹³⁺ [Sturm et al., PRL 107, 023002 (2011)]

²⁸Si¹¹⁺ [Wagner et al., PRL 110, 033003 (2013)]



experiments to

heavy-Z systems

experiment theory $28Si^{13}+$

 $\delta g/g = 7.0 \times 10^{-11}$ $\delta g/g = 8.5 \times 10^{-10}$

28 Si 11+

 $\delta g/g = 1.1 \times 10^{-9}$ $\delta g/g = 2.5 \times 10^{-9}$