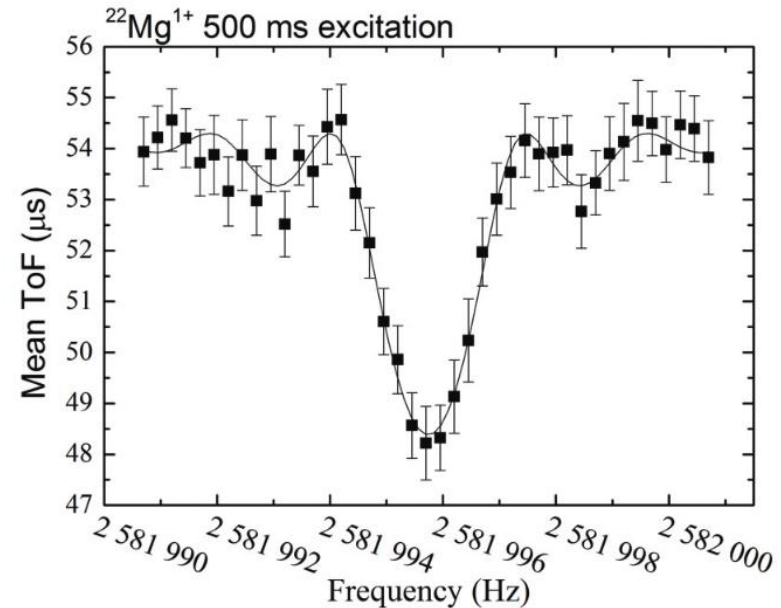
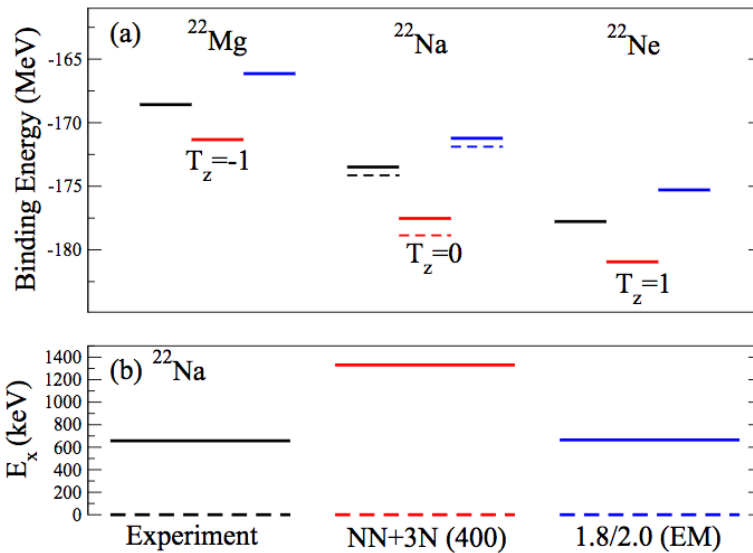


Direct Q_{EC} -value measurement of ^{22}Mg decay



- We performed the direct Q_{EC} -value measurement of the superallowed pure Fermi decay transition of ^{22}Mg using the TITAN Penning trap.
- This represent the single most precise measurement of this quantity to date.



- As a benchmark for future first-principle calculations of the isospin symmetry breaking correction, the corresponding binding energies of the isobaric analogue states of the $T = 1$ triplet were compared to valence-space in-medium similarity renormalization group method.

