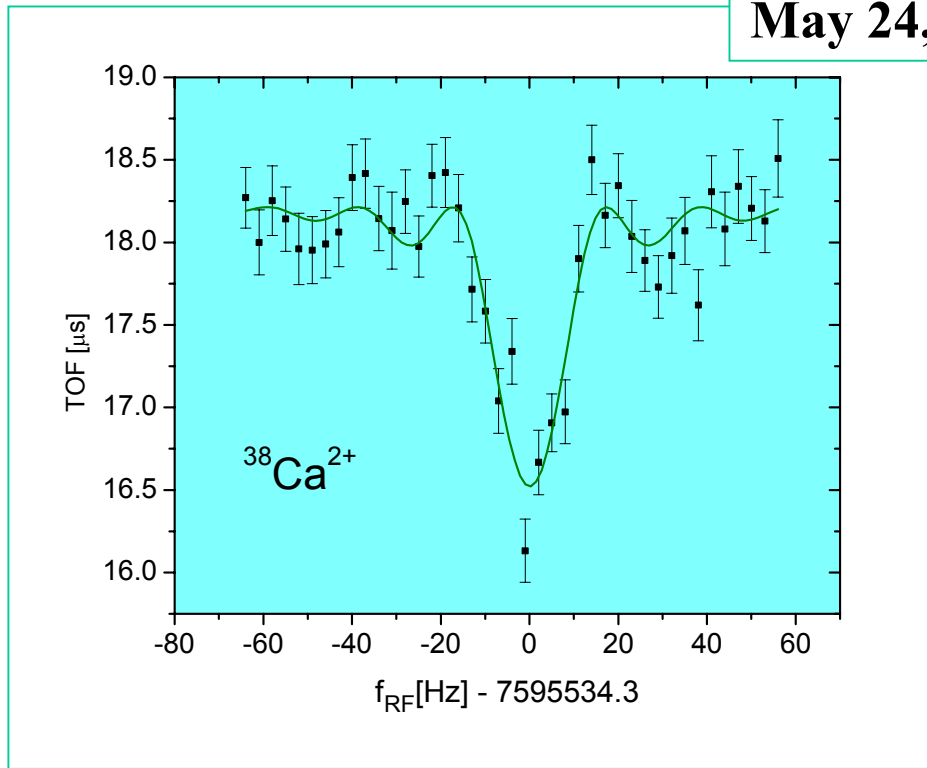


# First Penning Trap Mass Measurements of Rare Isotopes Produced by Fast Beam Fragmentation

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$^{38}\text{Ca}$  from 92 MeV/u  $^{40}\text{Ca}$

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9.4 Tesla Penning trap



**Resolving power**

$$R = m/\Delta m = 0.2\text{-}1.2 \text{ million}$$

**Expected mass uncertainty**

$$\delta m \approx 1 \text{ keV or less}$$