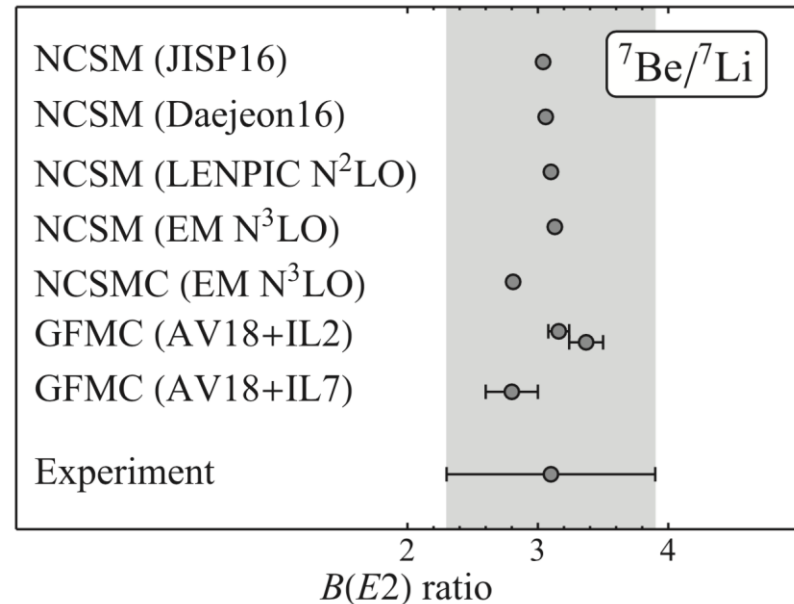
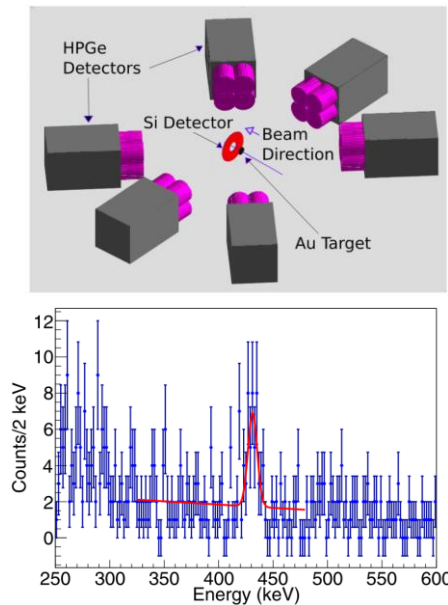


First measurement of $B(E2)$ in ${}^7\text{Be}$



The structure of light elements are of interest for ab-initio nuclear theory and astrophysics. We have measured for the first time the E2 transition strength of the first excited-state transition in ${}^7\text{Be}$, an important experimental constraint for ab-initio models and their use for reaction rates of ${}^7\text{Li}$ and ${}^7\text{Be}$ in various astrophysical scenarios including big-bang nucleosynthesis. We have found a consistent way to compare our results to a large range of theoretical predictions and find a robust result between various ab-initio calculations and experiment.



S. Henderson et al., Phys. Rev. C 99 064320 (2019)
NSF Grant no. PHY 17-13857

