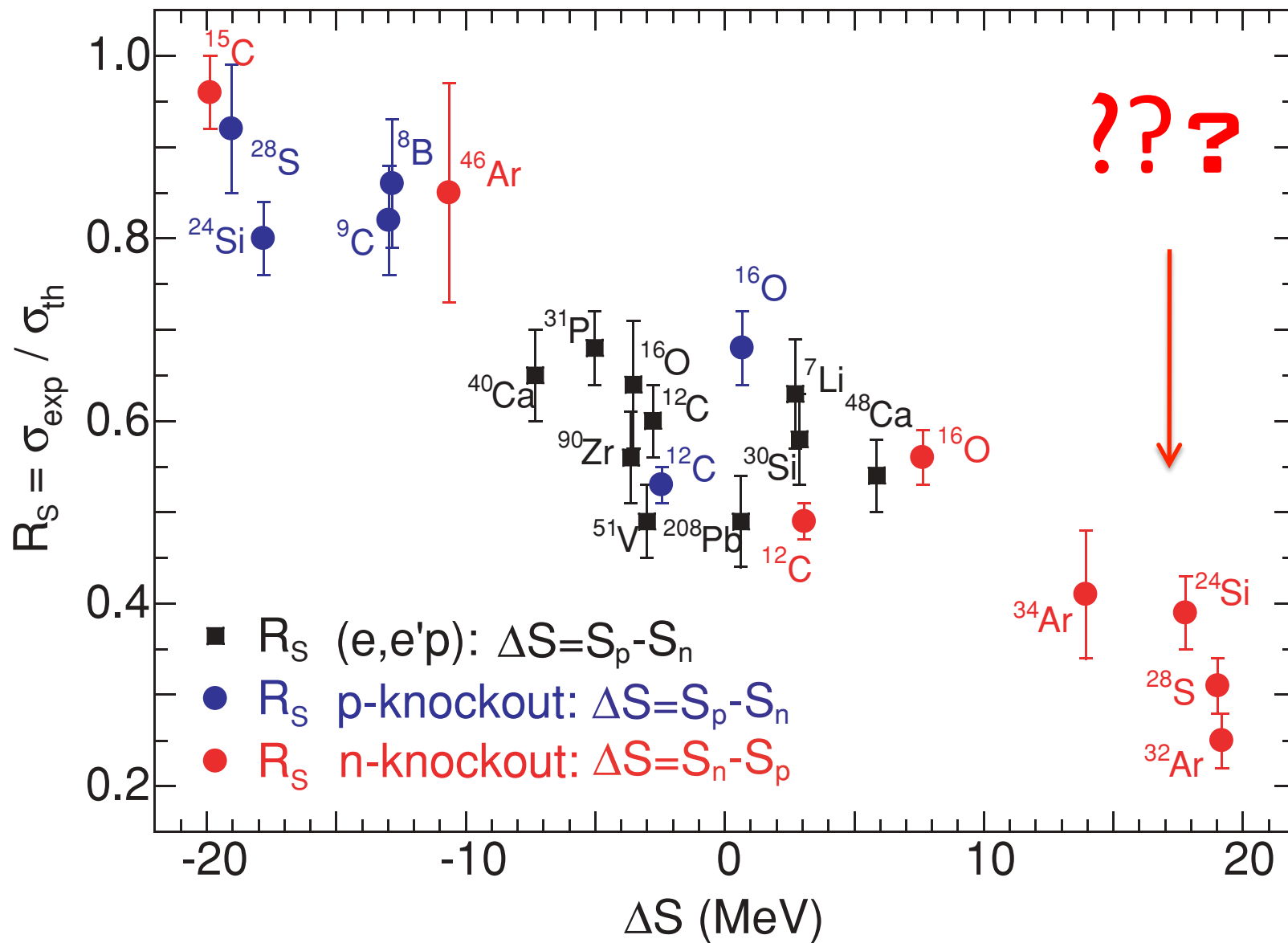


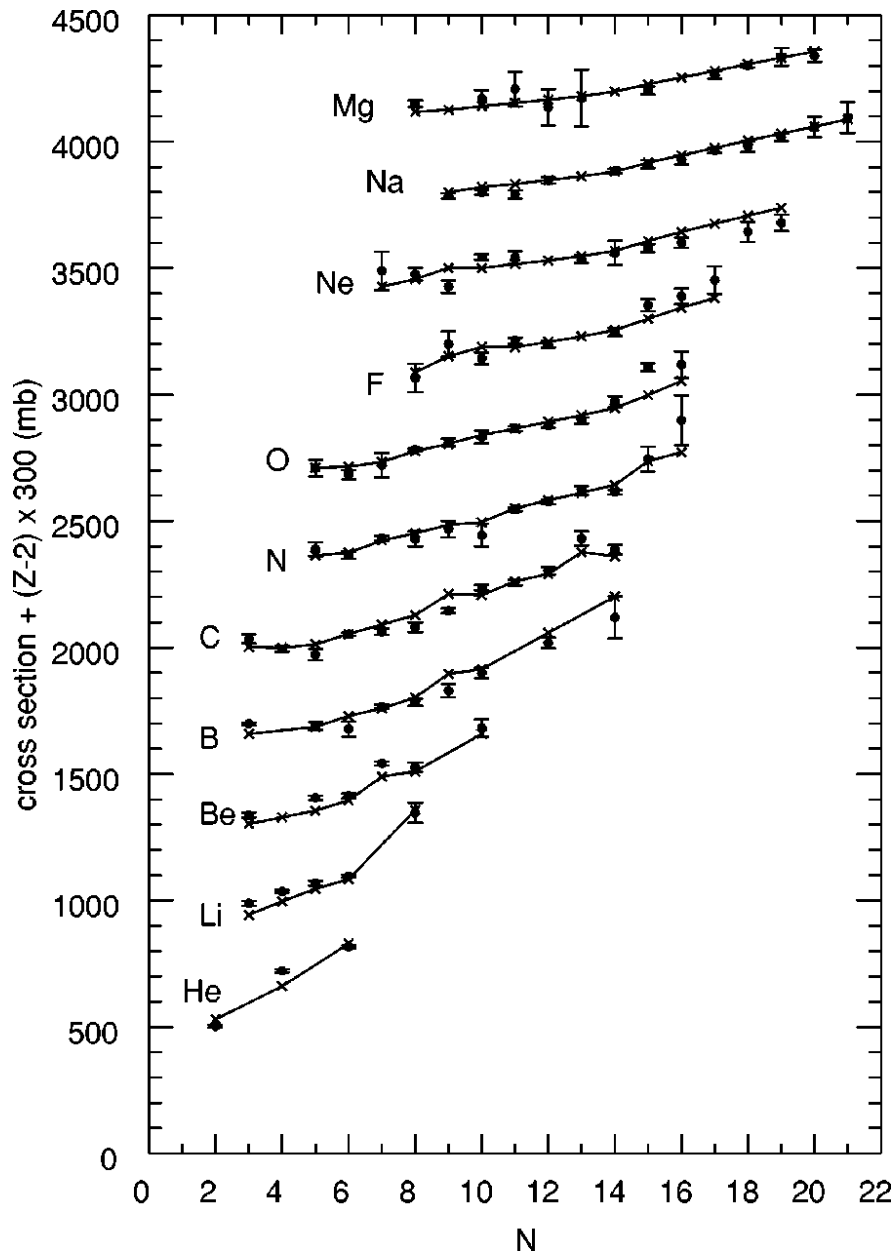
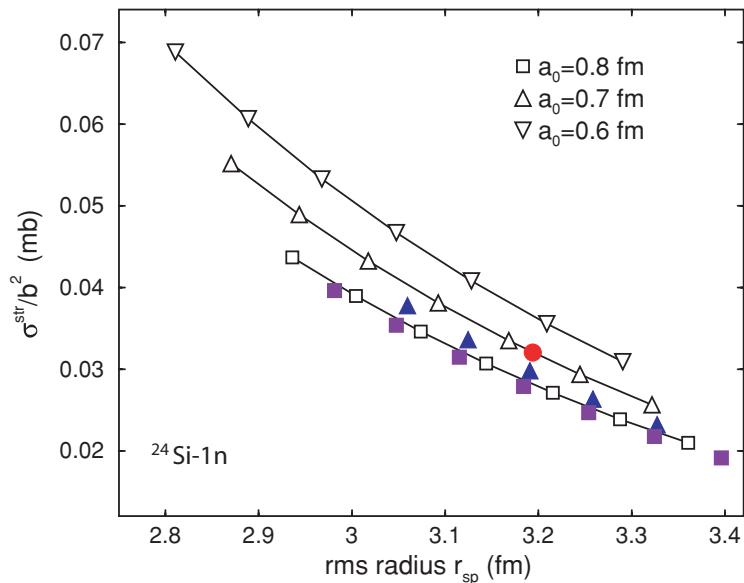
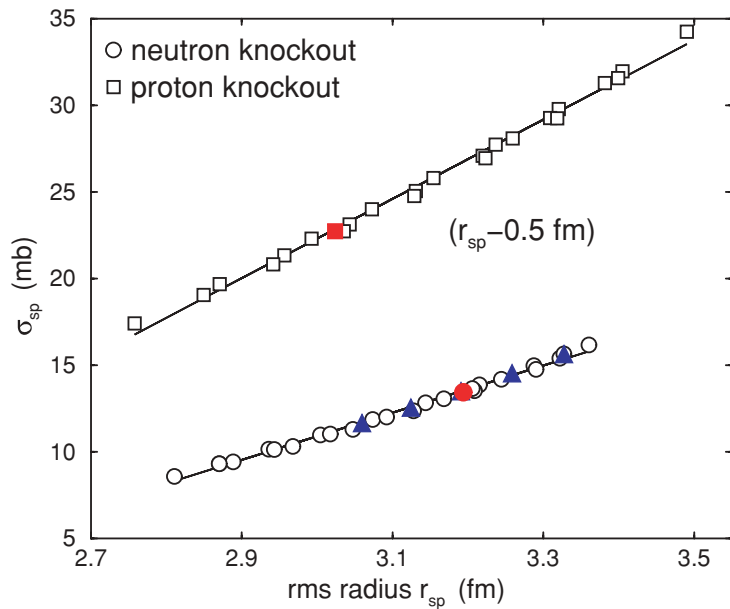
DCEN discussion session

Knockout reactions

The open question?

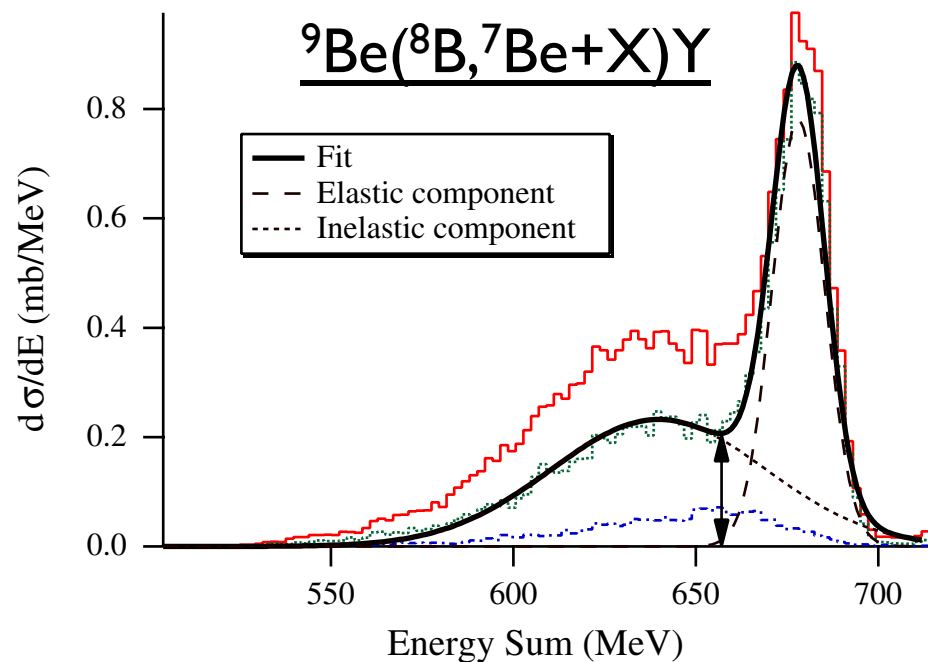
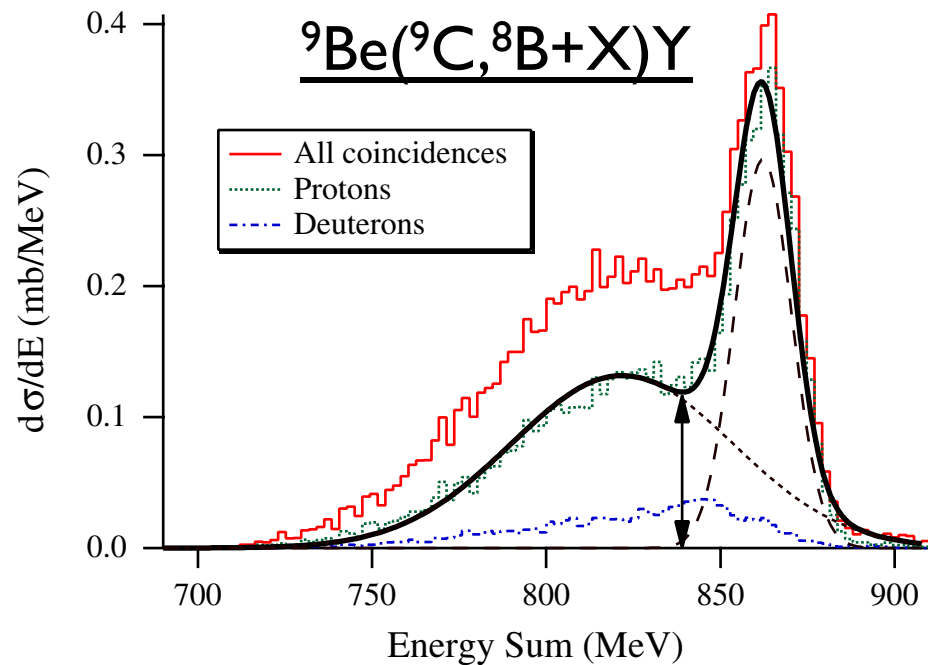
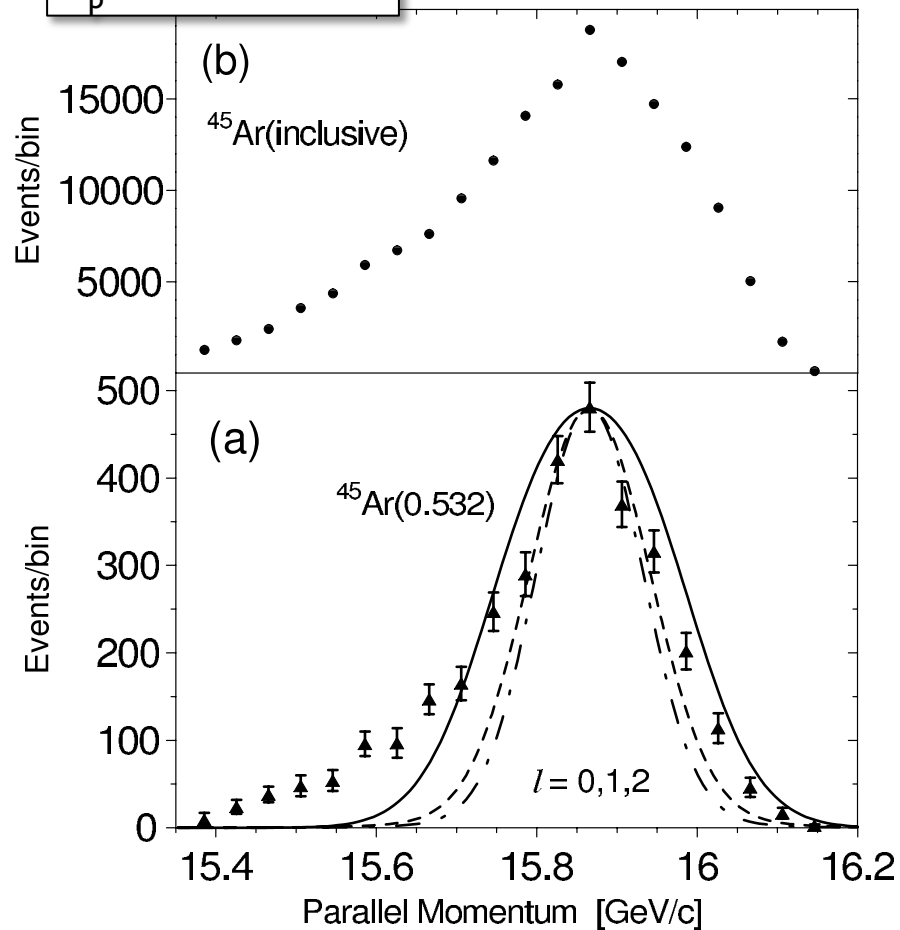


Model sensitivities



$^{46}\text{Ar}(-\text{In}) @ 70 \text{ MeV/nucleon}$

$S_n = 8.02 \text{ MeV}$
 $S_p = 18.65 \text{ MeV}$



Gade *et al.*, PRC 71 051301(R) (2005)

Bazin *et al.*, PRL 102, 232501 (2009)

Questions

- Deeply bound removal
 - Do we believe the results?
 - Do we understand current model sensitivities?
 - What is missing in the current models?
 - What new experimental tests are required? Higher energy?
 - Alternatives: transfer, (p,2p)?
- Low momentum tails
 - Why in some cases but not others?
 - Beam energy dependence?
 - Reaction mechanism?
- Extensions
 - Greater exclusivity, removed nucleons/target?
 - CDCC for diffractive breakup
 - Nucleon energy distributions for *stripping*?
 - Core excitation?