

Aluminum Simulation Status

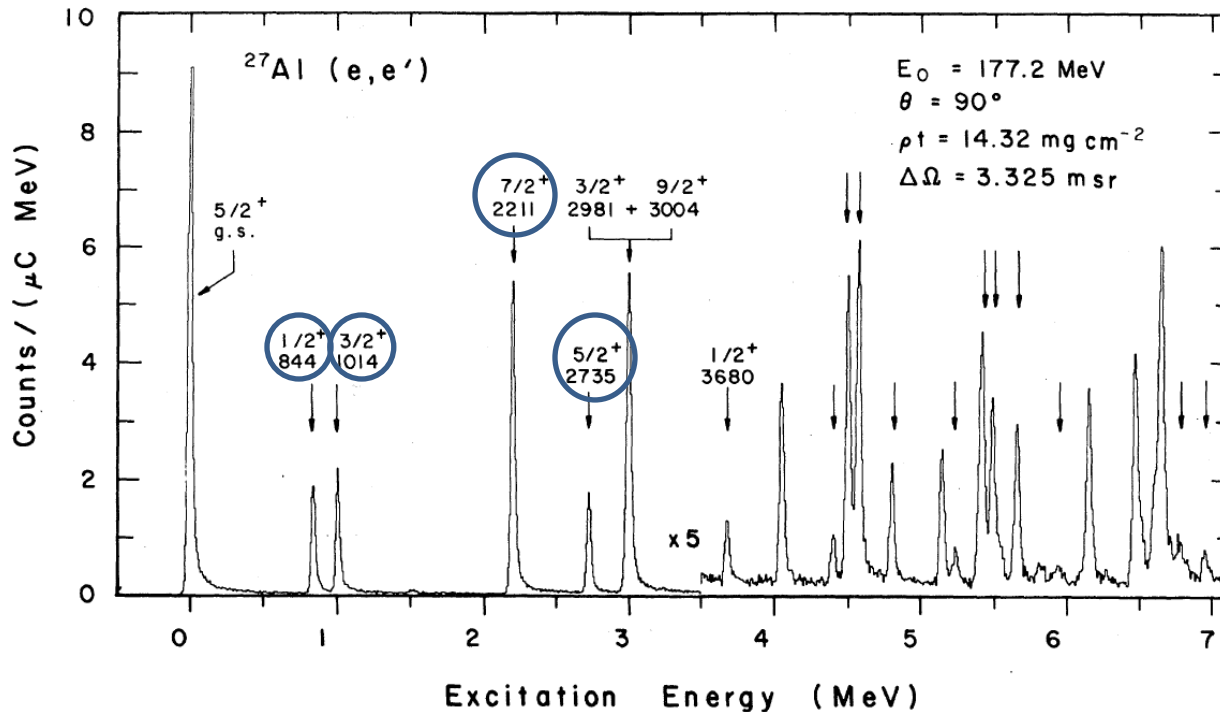
Ciprian Gal

-UVa-

Overview

- Currently working with the code from Rupesh for the excited, quasi elastic and inelastic (based on Bosted's fits) AI processes
- The excited states has been easy to implement (but may not be sufficient)
- I am still working on the Bosted implementation

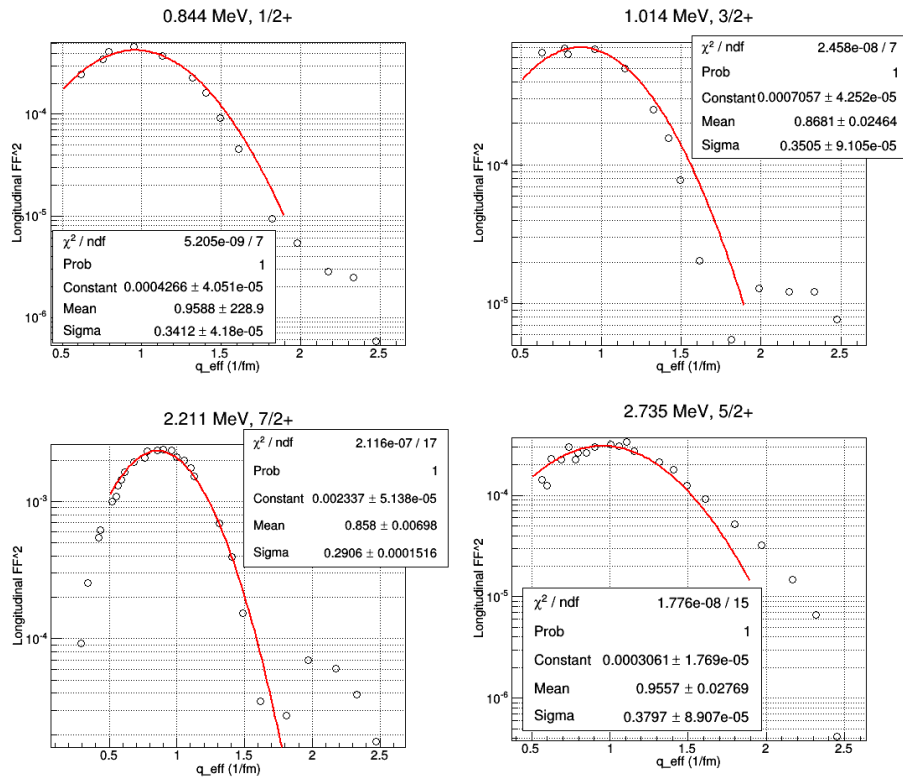
Al Excited States



Ryan et al., PRC 27, no 6, 1983

- Only the first 4 even excited states are in the code right now
- There are plots in the paper for the rest (do they need to be implemented?)

AI Excited States



- The excited states form factors are as a function of momentum transfer q
- Since they did not need all the range the current fits only properly describe the data to about 1.5 fm^{-1}
- Do we need the whole range?

To do

- Finish implementing the Bosted code into remoll
- Run some xchecks
 - Dave G. suggested there are places in the phase space where this code fails (including the Fortran)
 - Against the Fortran code to make sure there was nothing lost in the translation
- I will start pushing changes back to the master repository as soon as things are completed