

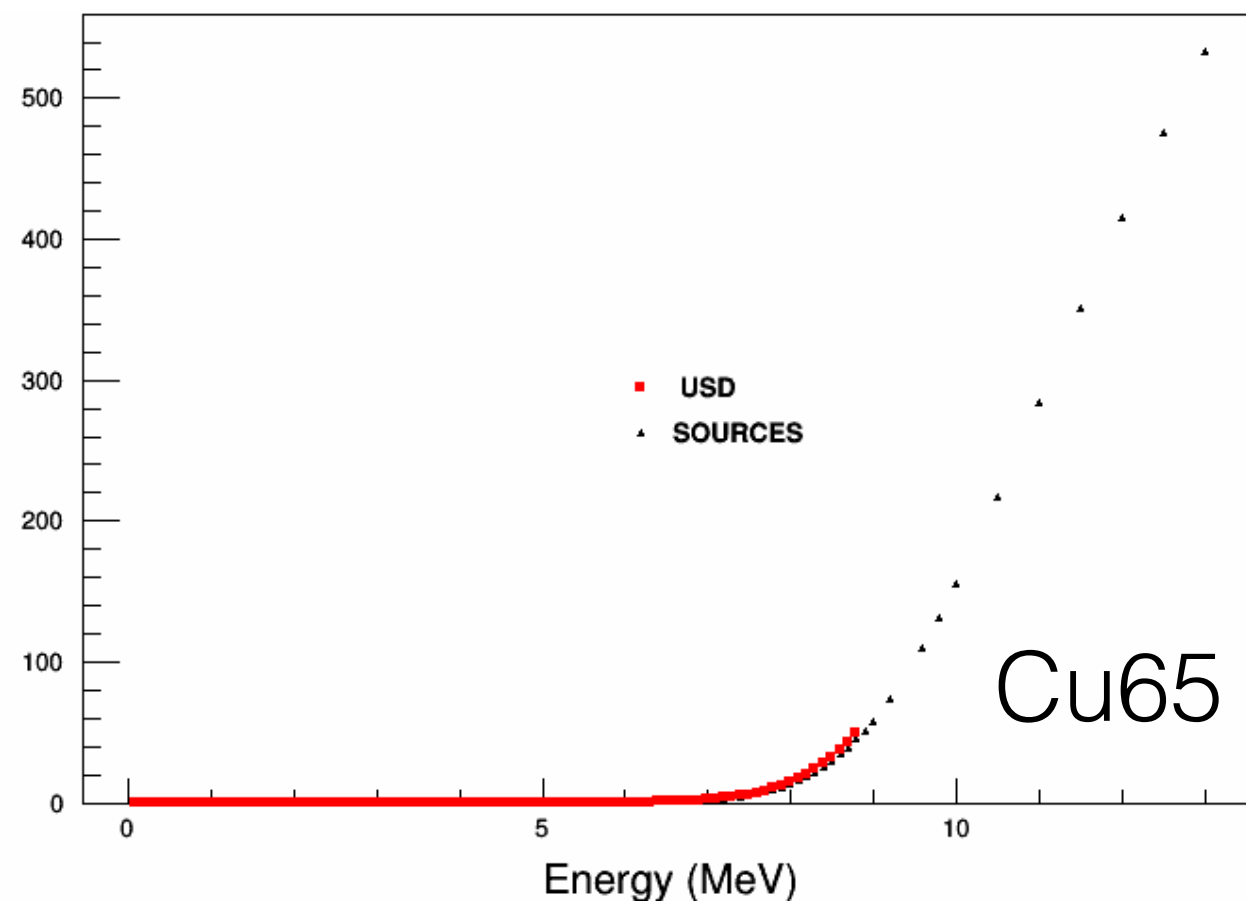
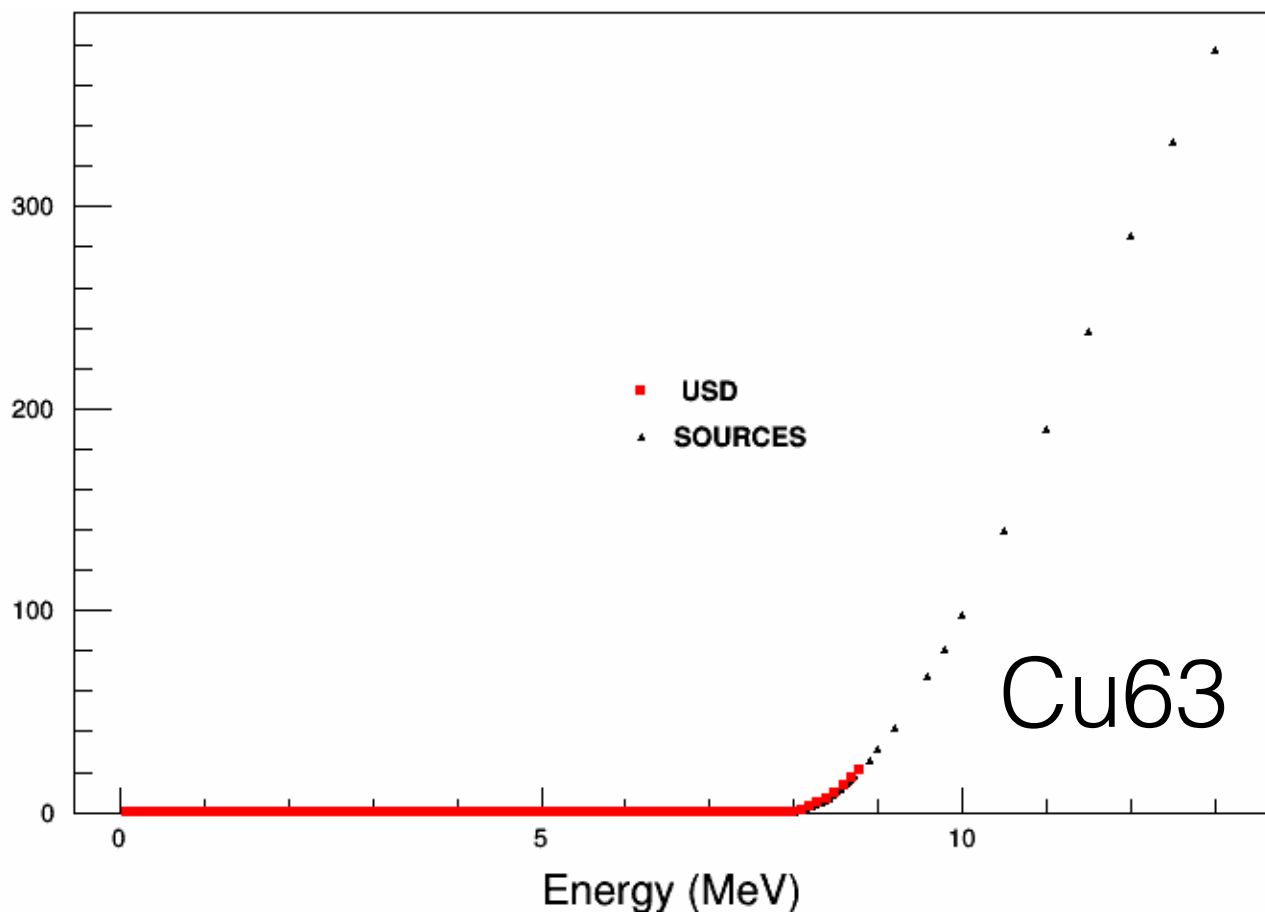
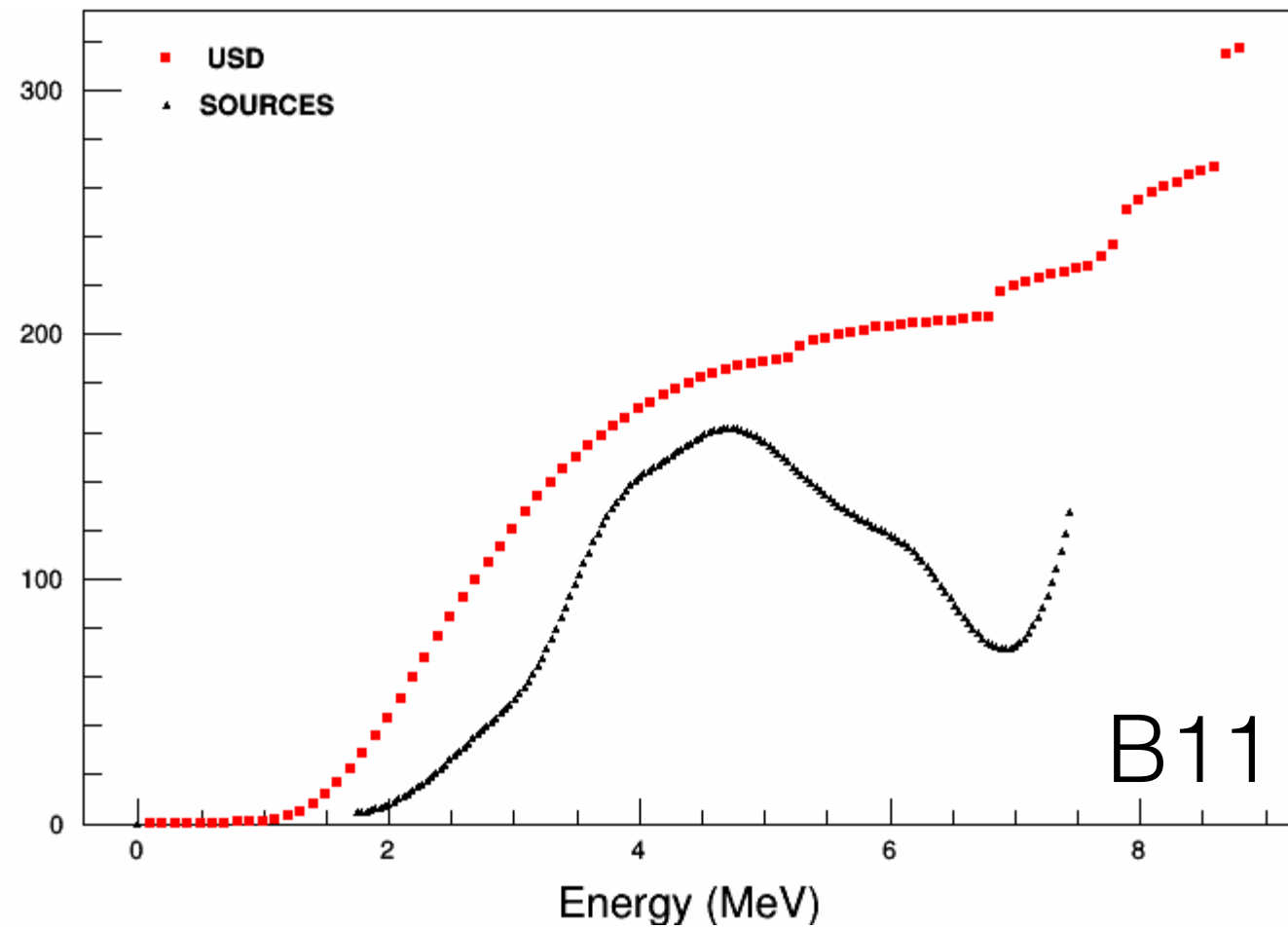
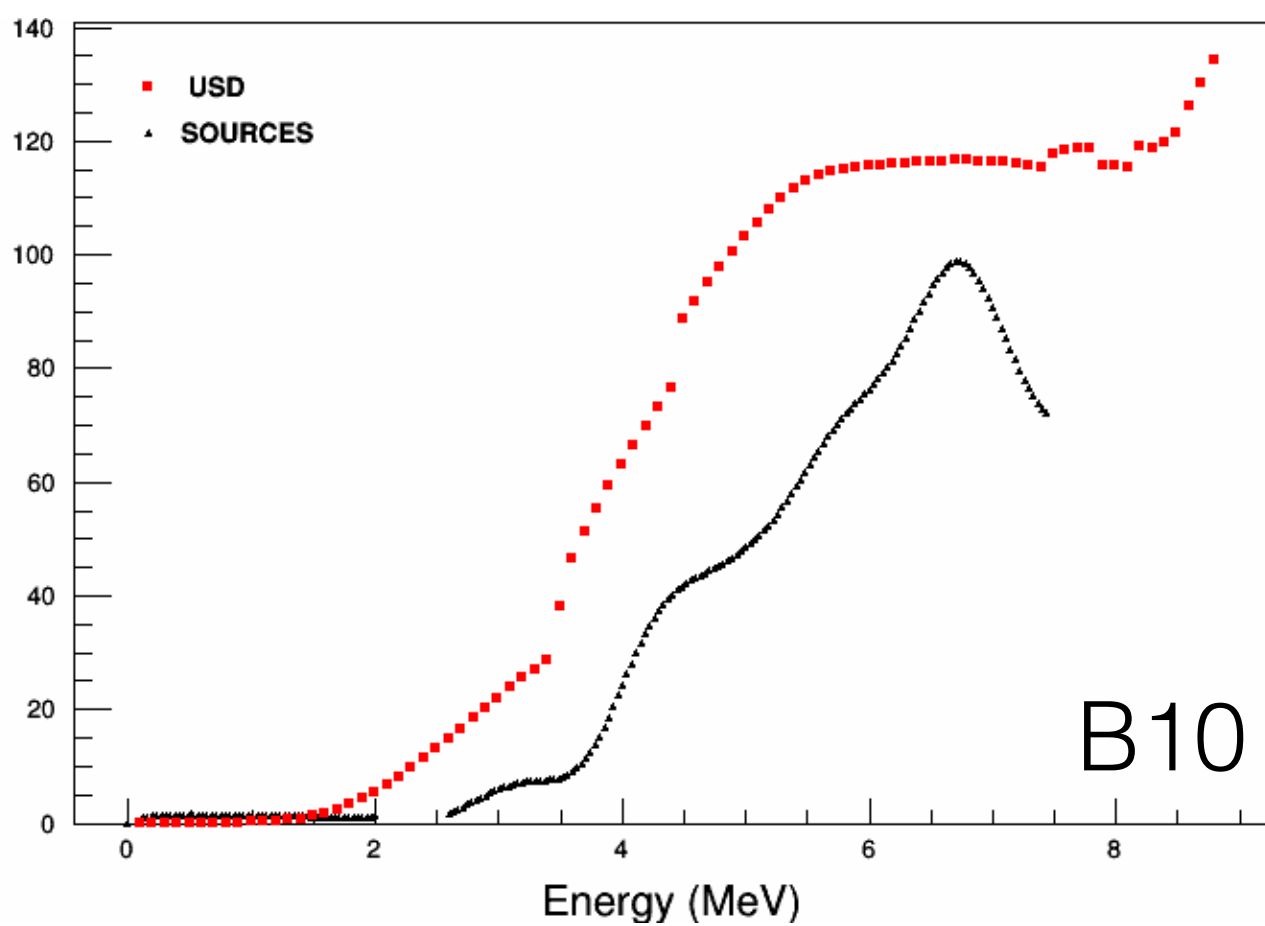
cross section comparison

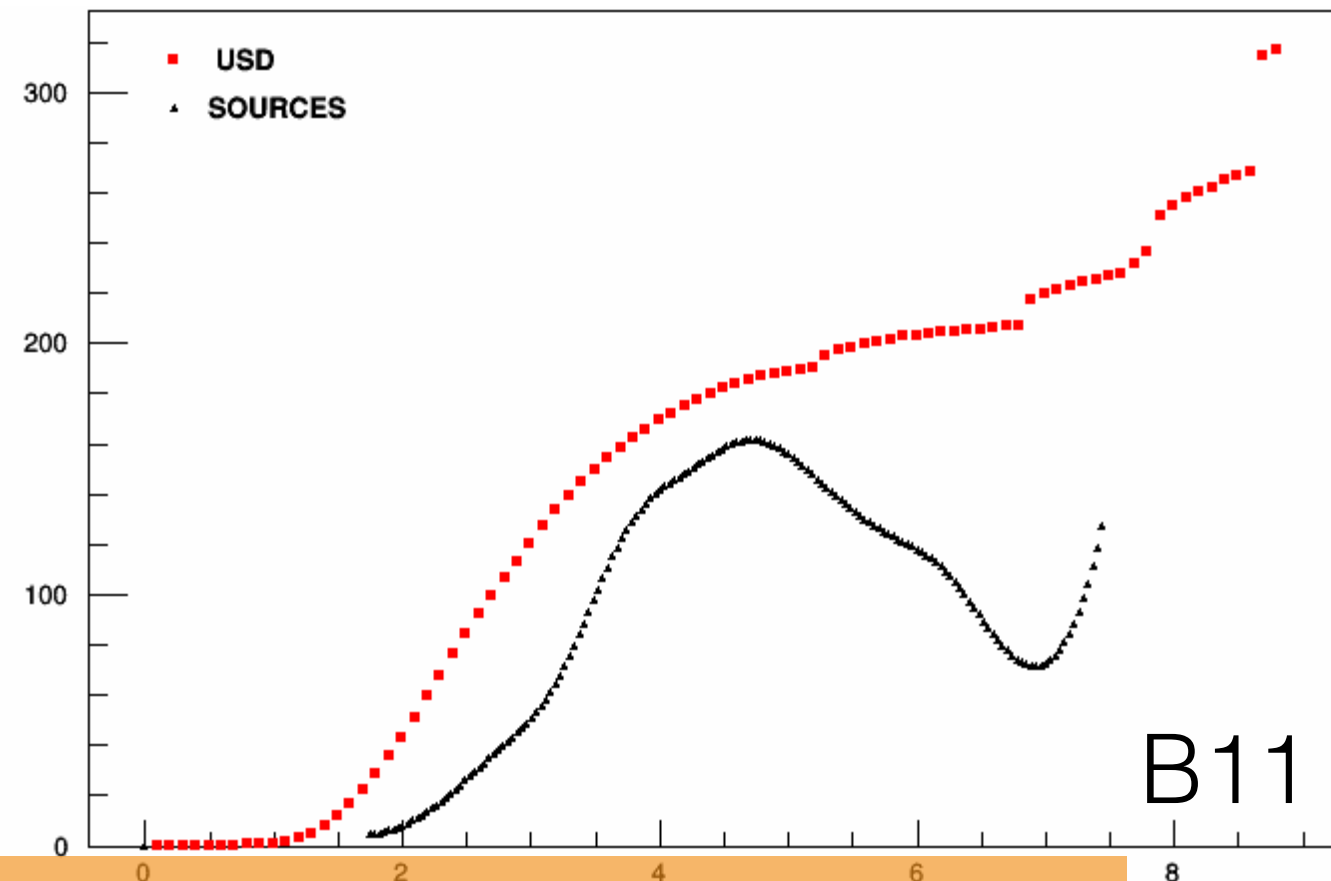
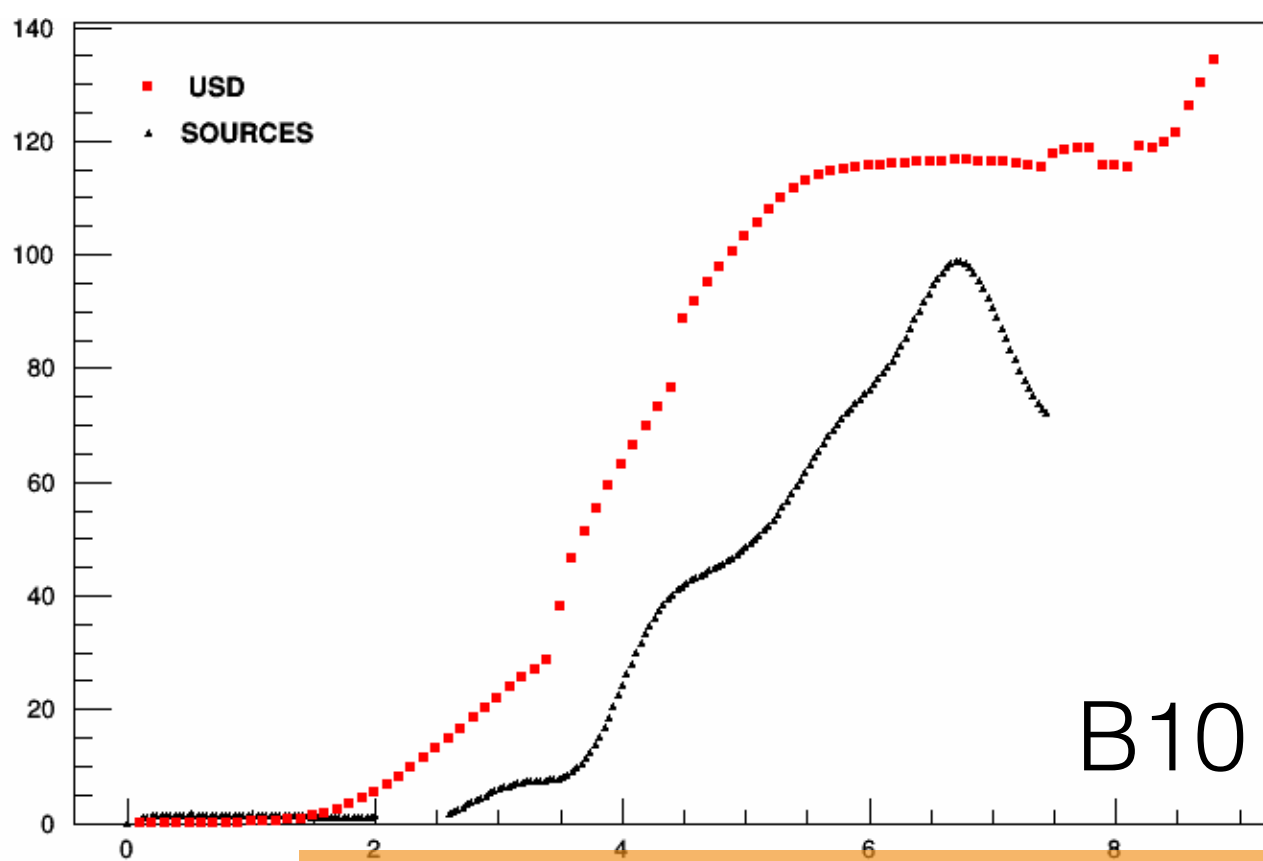
USD nprod.tot vs SOURCES4 tape3

- USD total cross sections are synced on dropbox radiogenic/
TotXsec_USD
- SOURCES4 complete tape3 and single isotope cross section
are synced on dropbox in radiogenic/Xsec_SOURCES4
Mainly EMPIRE2.19 calculations + data when possible
- <http://www.physics.smu.edu/cooley/aarm/webpage.html>
TENDL vs SOURCES4 comparison already done

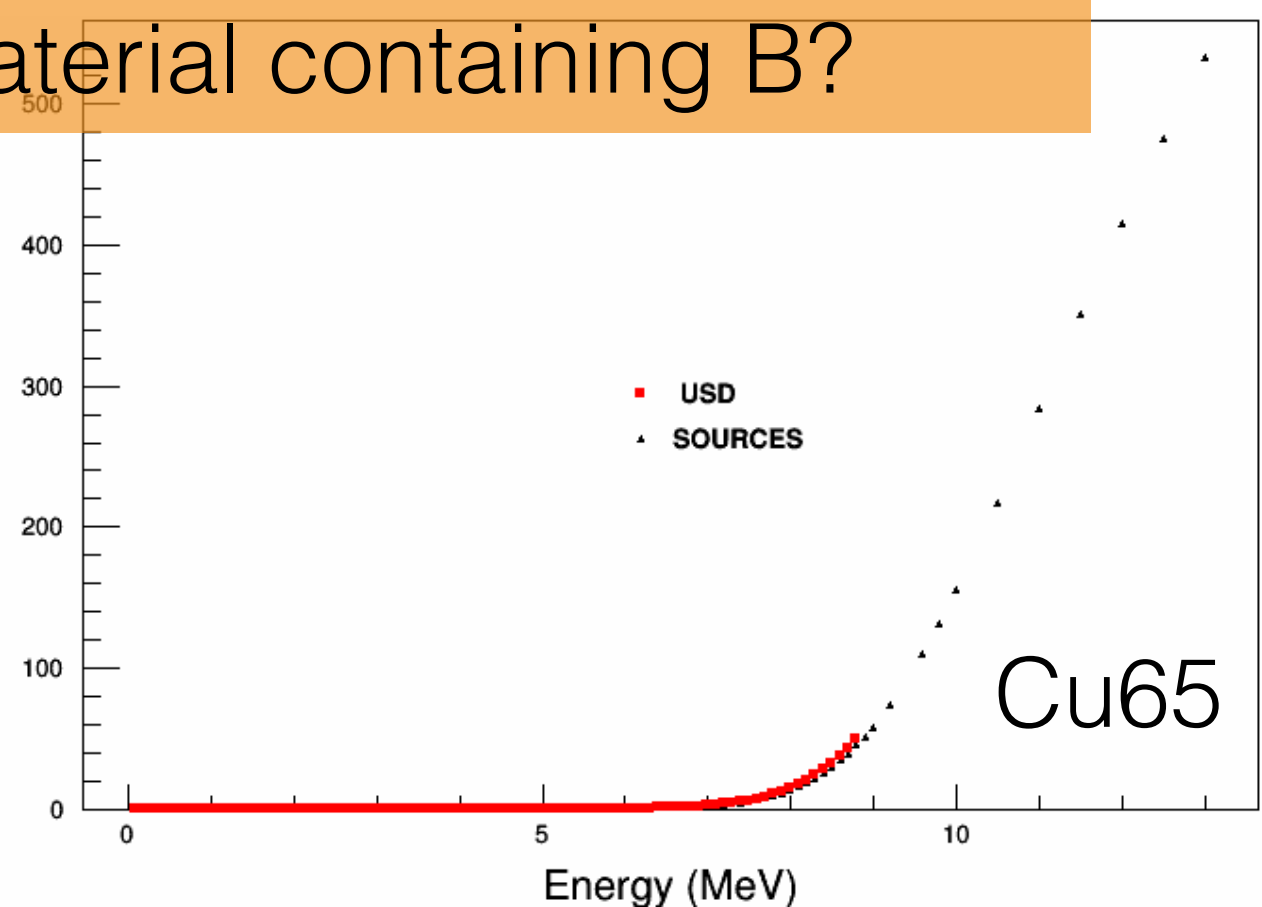
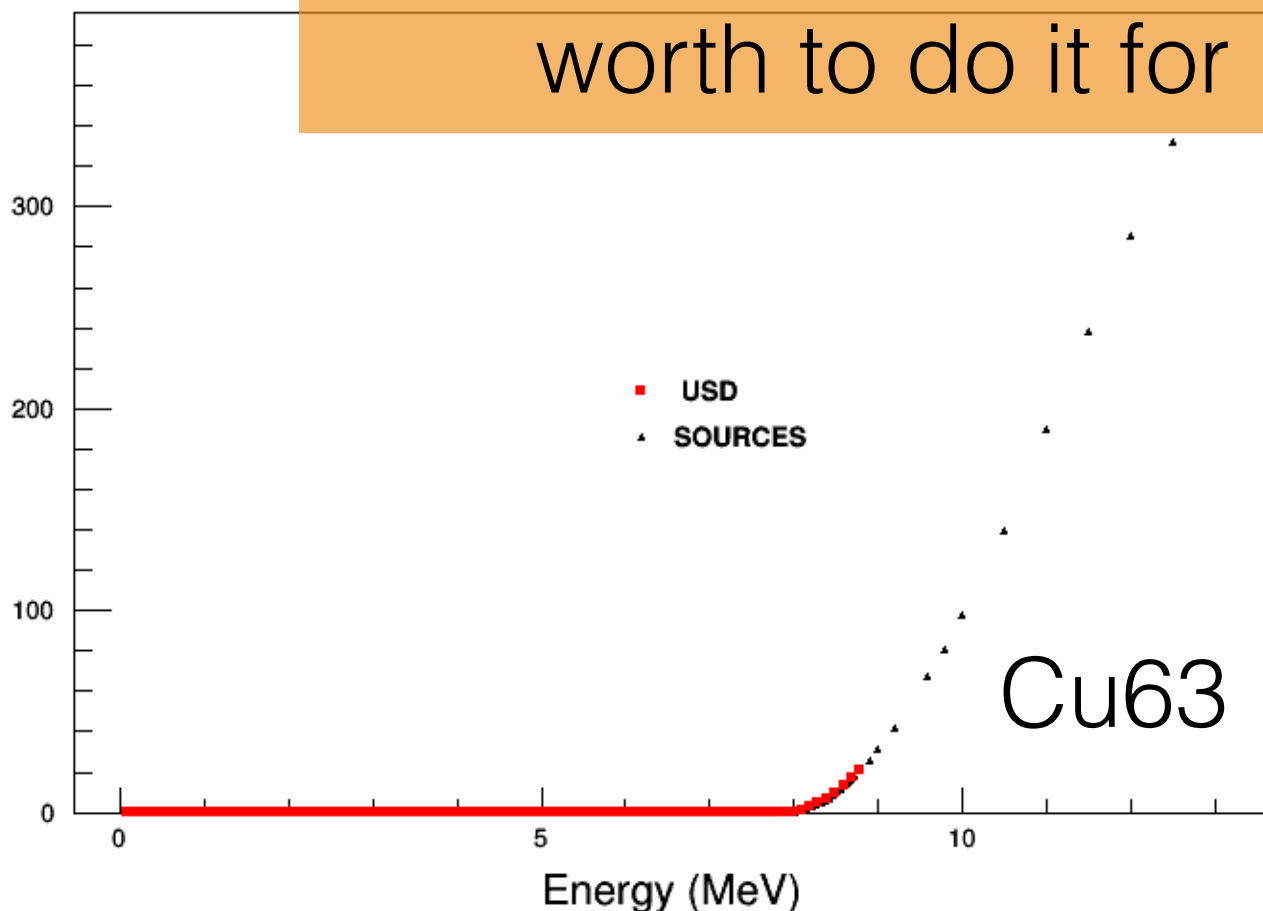
Doubts

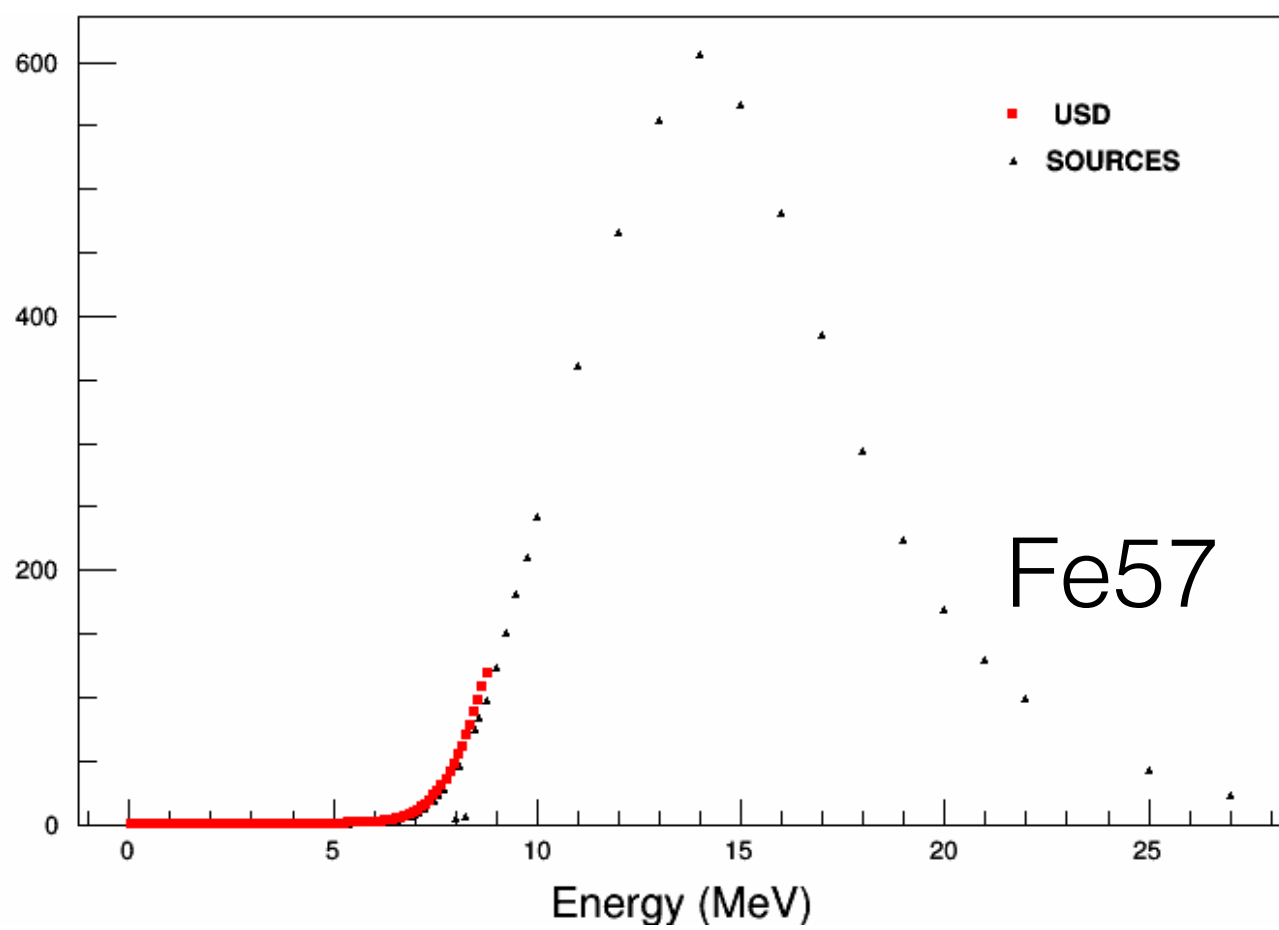
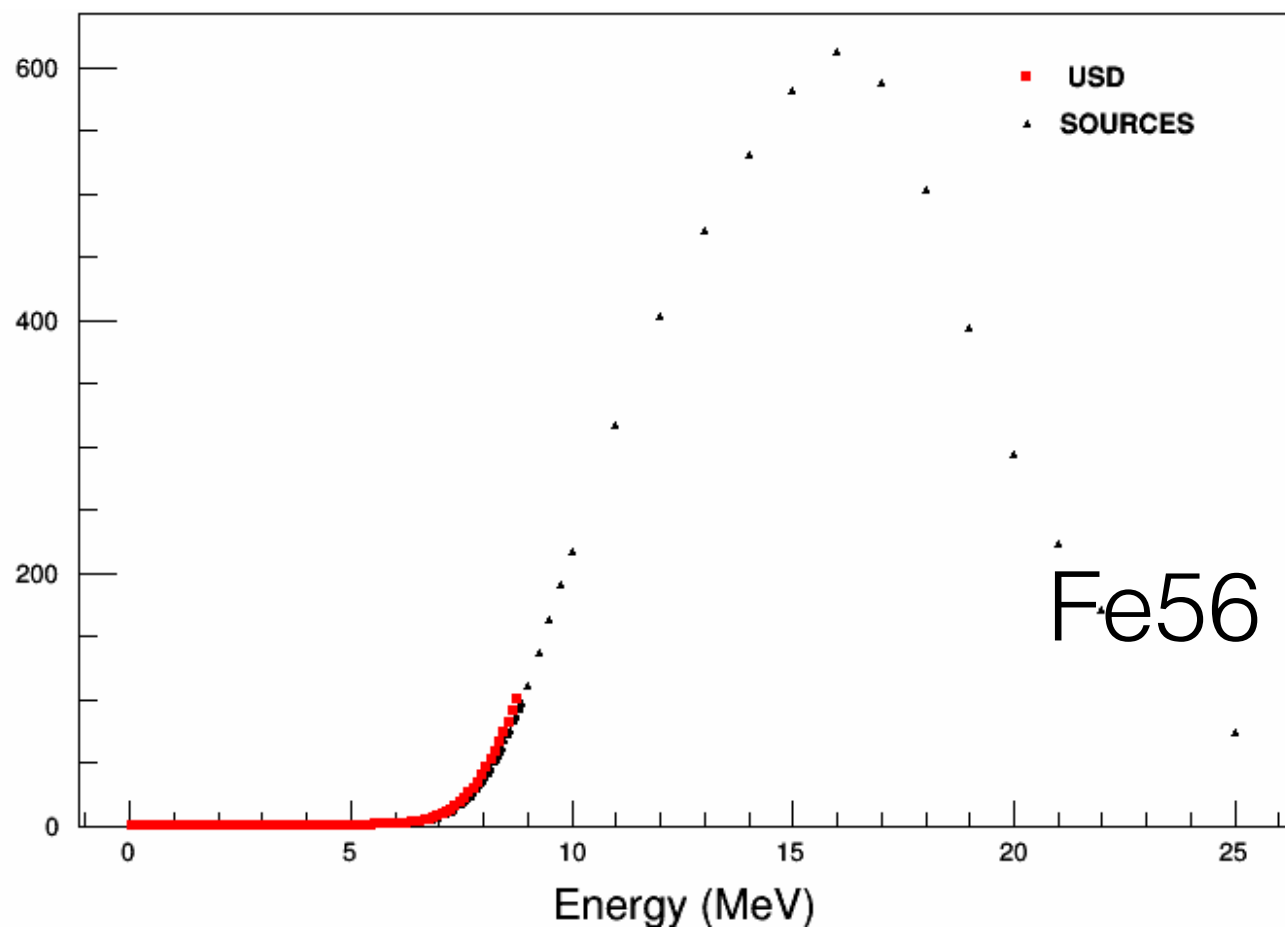
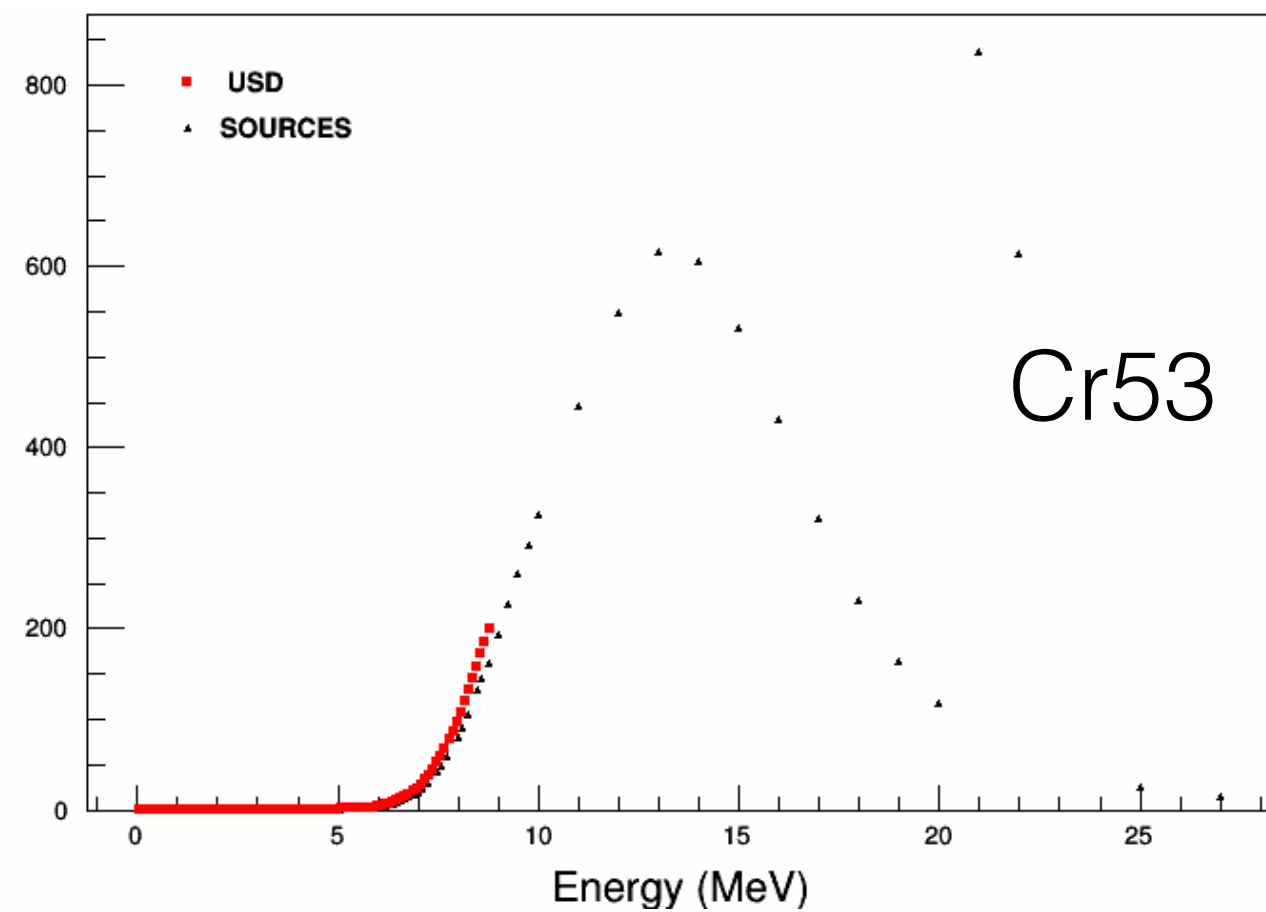
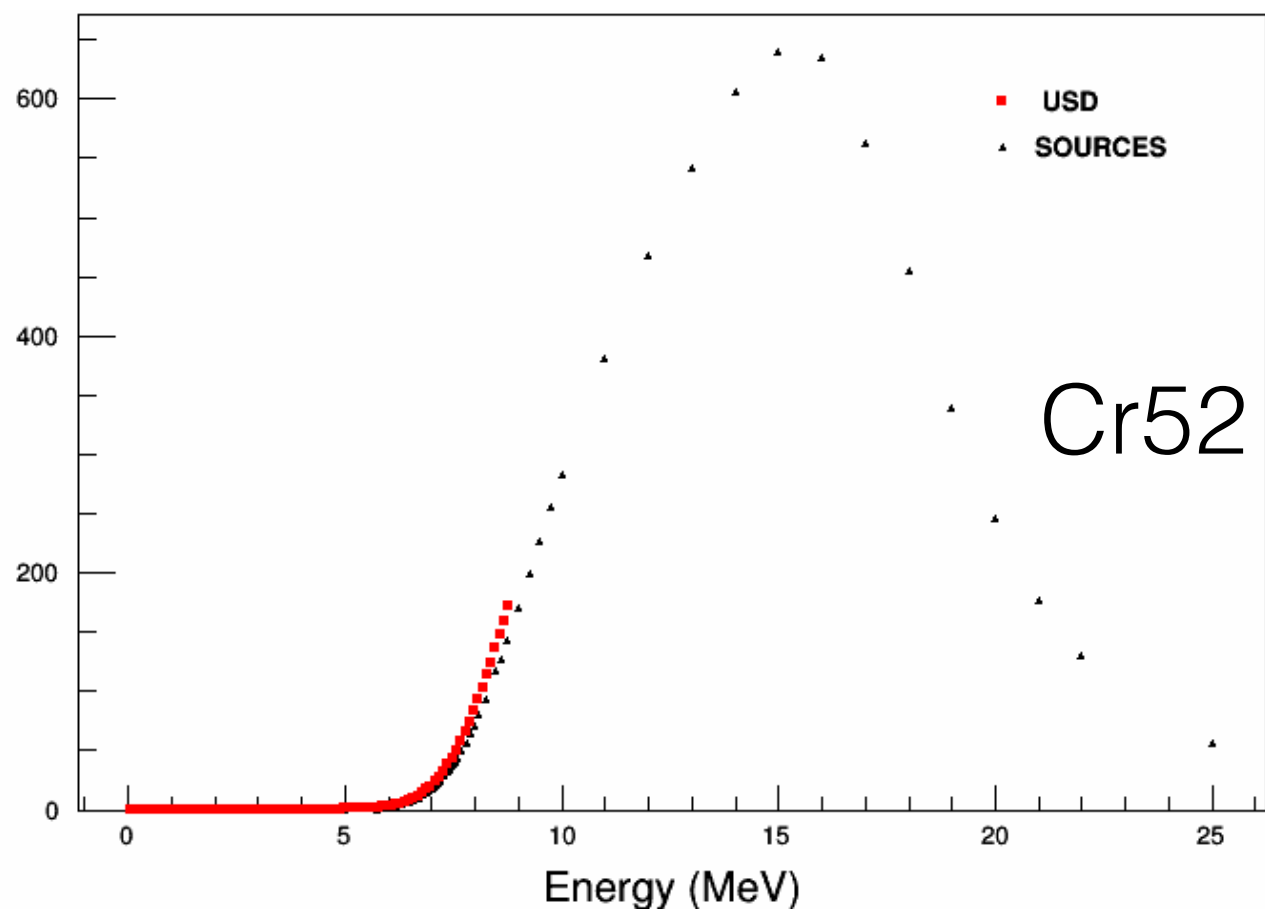
- Cr54, Fe58 available in USD?
nprod.tot.054 refers to Fe54
nprod.tot.058 refers to Ni58
- What isotopes does USD use as alpha target?

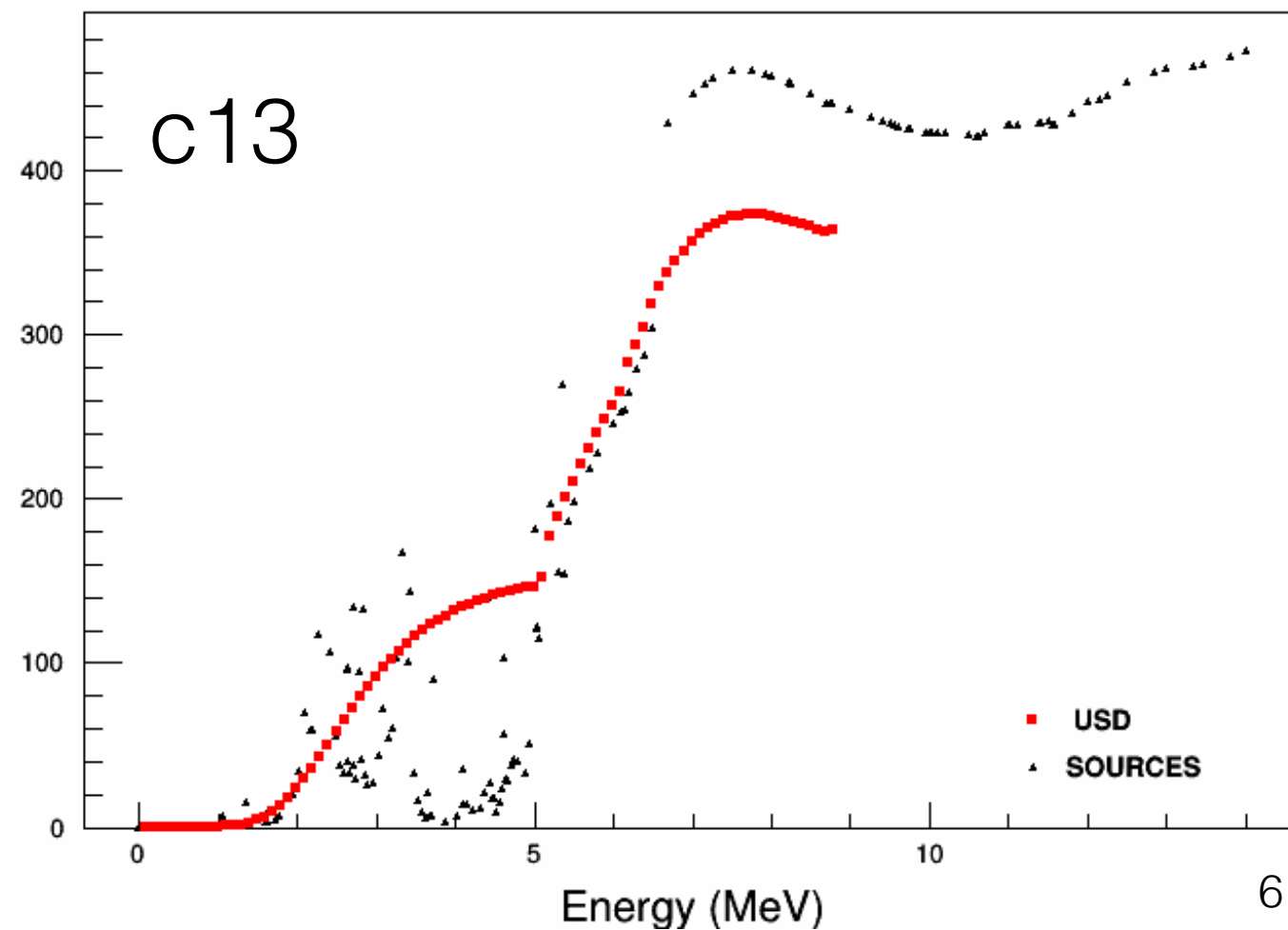
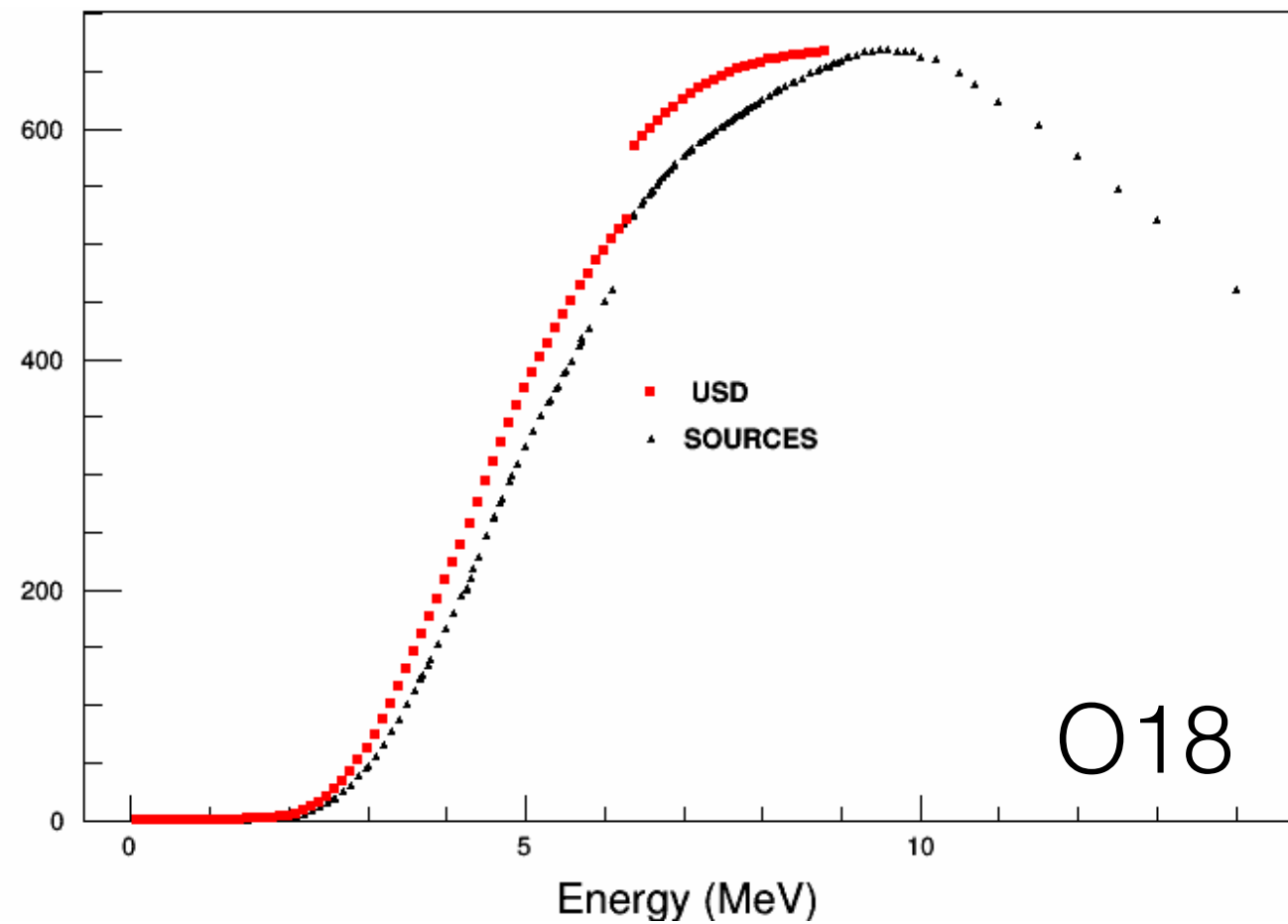
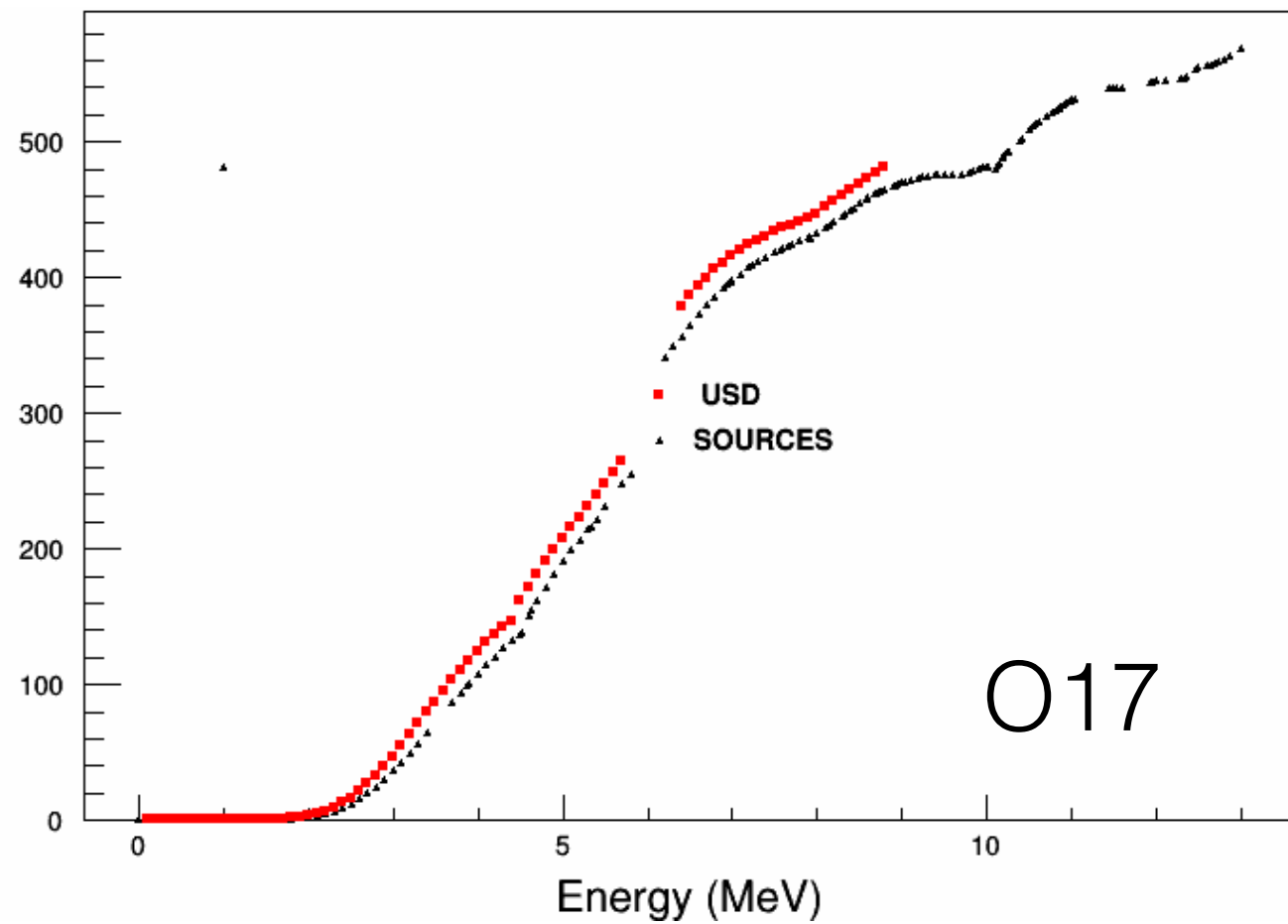




We have done cross check with Cu, would it be worth to do it for material containing B?







C13_SOURCES4:
EMPIRE2.19 +

SOURCES spectra

- ^{238}U 100% abundance spectra have been calculated and synced to usdneutronyield/SOURCES4_U238spectra/ on dropbox (not plot yet...)
- Ti corrected spectra have been uploaded both for Unat and U238
- Cu spectra uploaded both for Unat and U238

ongoing ...

- (alpha,n) USDvsSOURCES spectra to be produced
- Finishing with cross section comparison (missing material, additional cross check “USD into Sources4 code” for C13 and B10-11)
- Teflon still to be calculated ...
- Anything else?