Cross section comparison USD nprod.tot vs SOURCES4 tape3

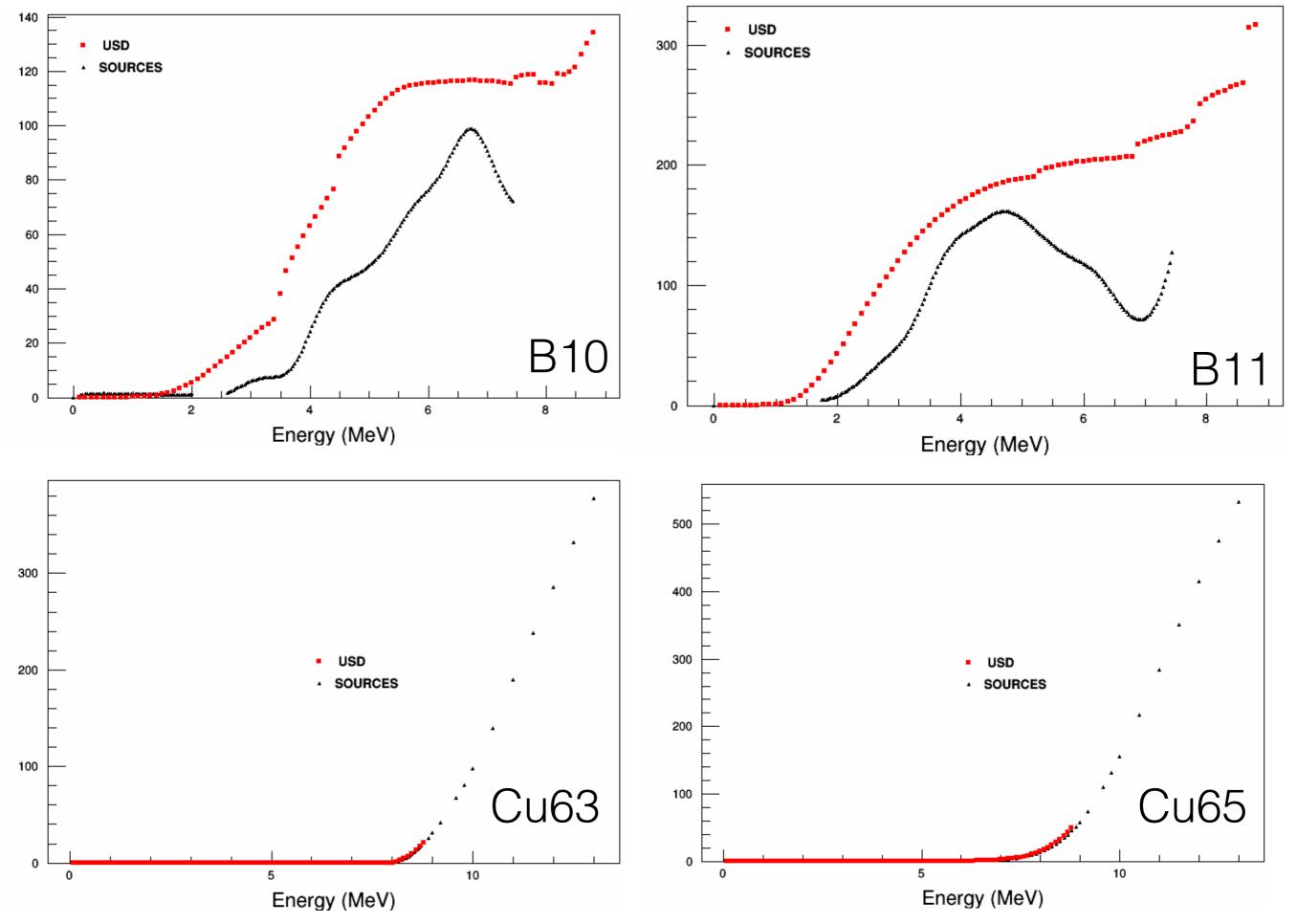
Silvia 01.29.2015

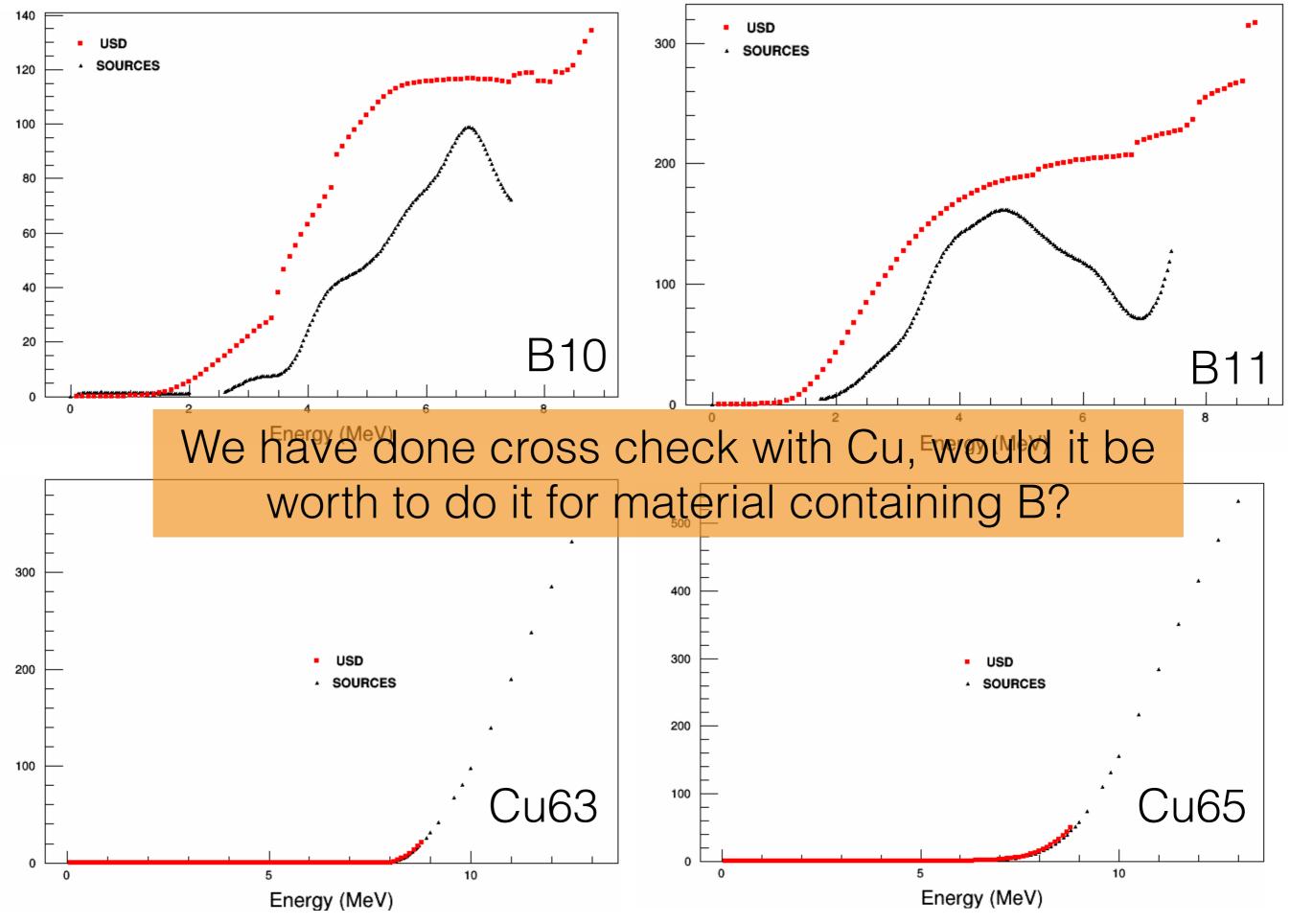
- USD total cross sections are synced on dropbox radiogenic/ TotXsec_USD
- SOURCES4 complete tape3 and single isotope cross section are synced on dropbox in radiogenic/Xsec_SOURCES4 Mainly EMPIRE2.19 calculations + data when possible
- <u>http://www.physics.smu.edu/cooley/aarm/webpage.html</u>
 TENDL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

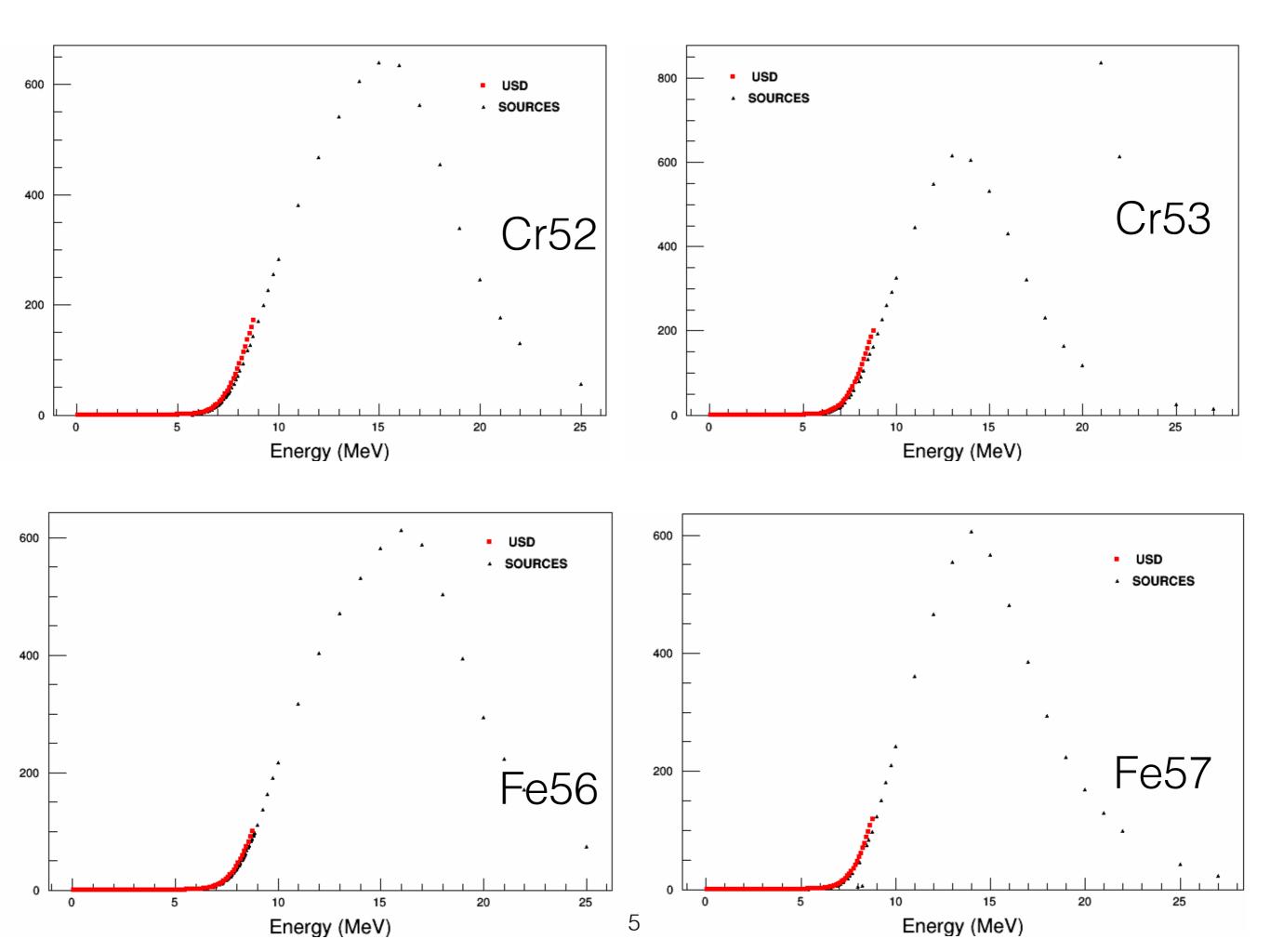
Doubts

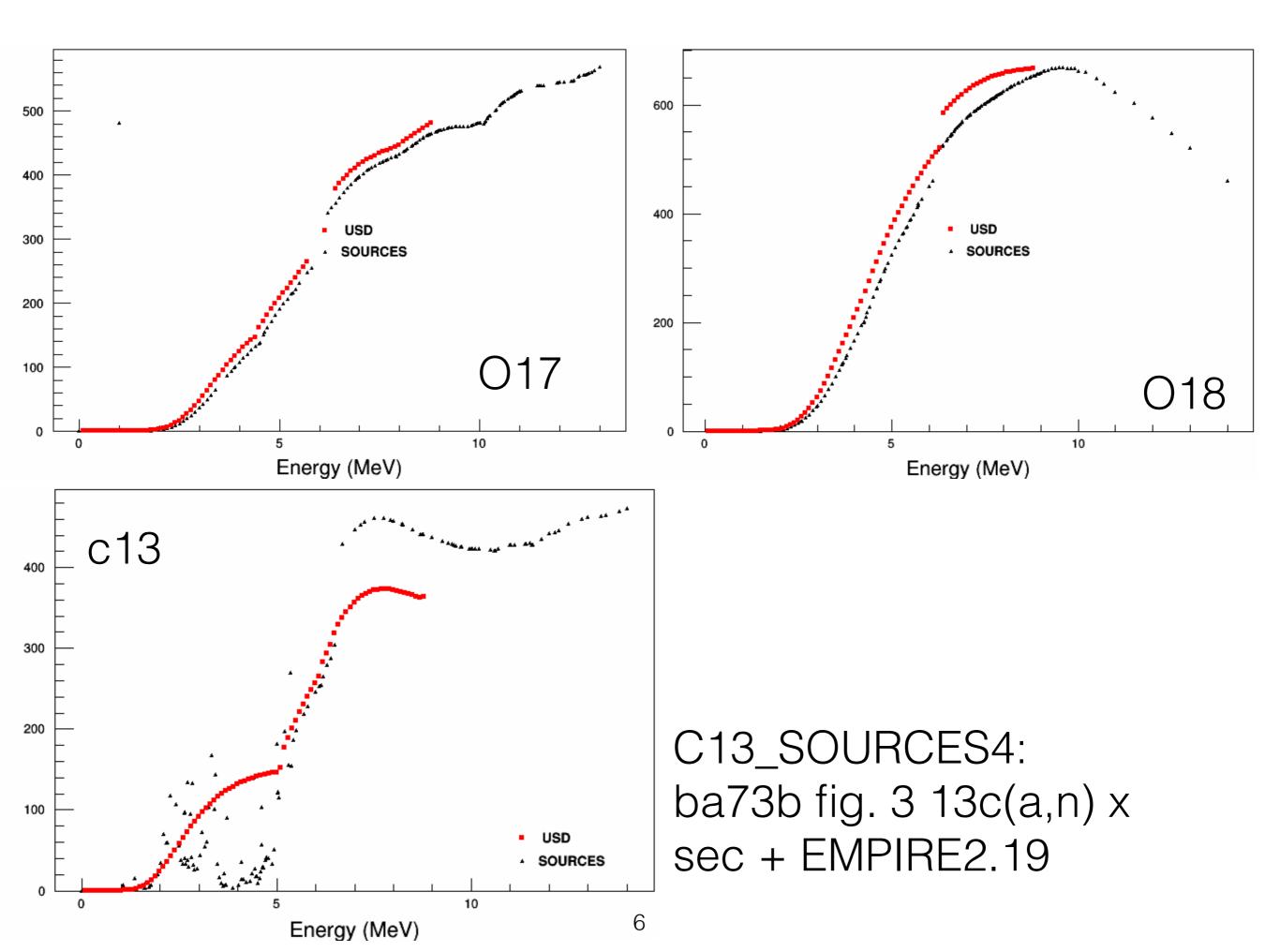
• Cr54, Fe58 available in USD? nprod.tot.054 refers to Fe54 nprod.tot.058 refers to Ni58

• What isotopes does USD use as alpha target?









SOURCES spectra

- ²³⁸U 100% abundance spectra have been calculated and synced to usdneutronyield/SOURCES4_U238spectra/ on dropbox (not plot yet...)
- Ti corrected spectra have been uploaded both fro 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?