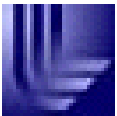


# LLNL Evaluations for $^{74,75}\text{As}$

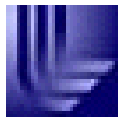
D.A. Brown for J. Pruet of LLNL/CNP Group

- What we did
- $^{74}\text{As}$  plots
- $^{75}\text{As}$  plots
- Remaining problem

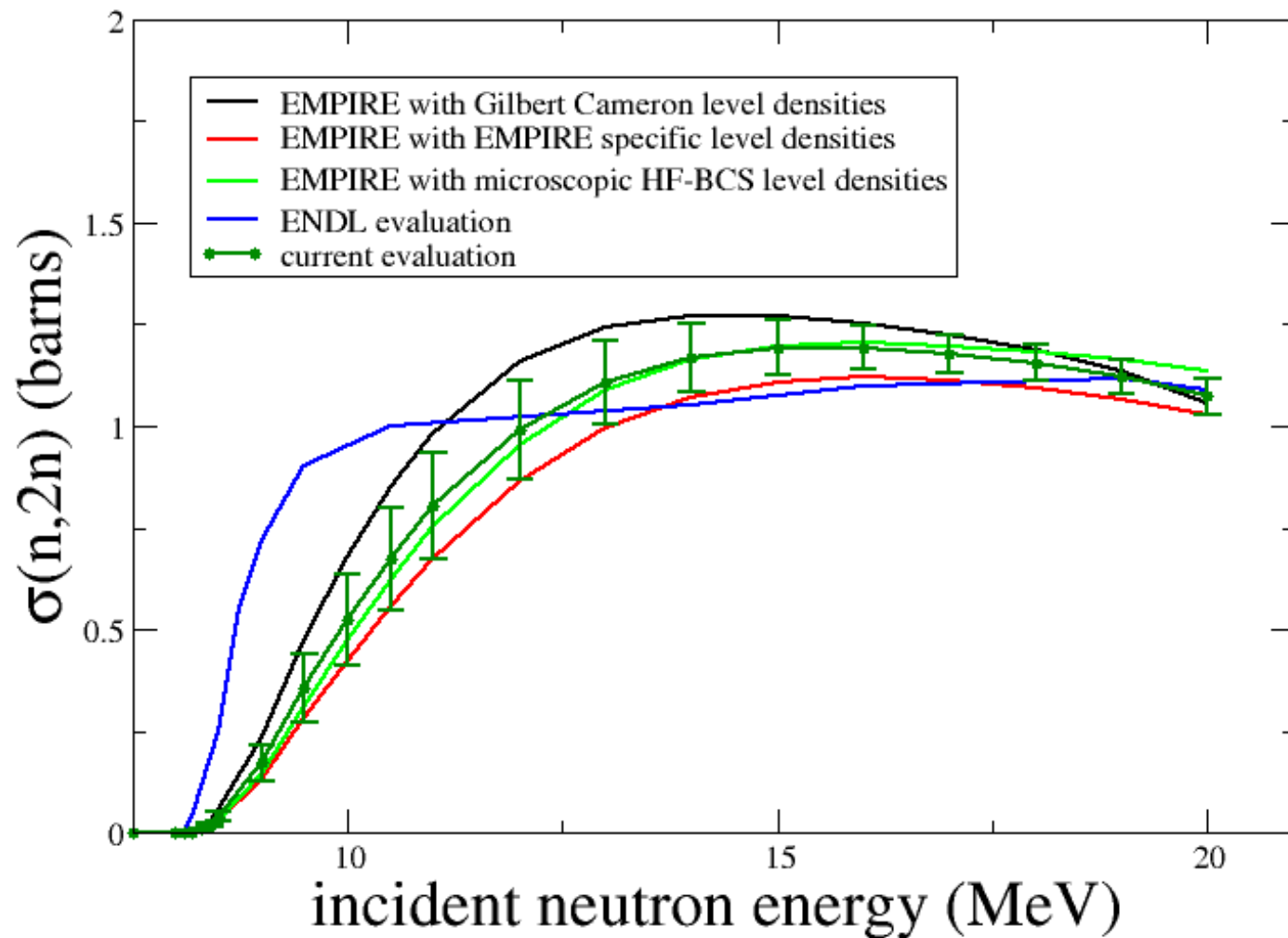


# What we did

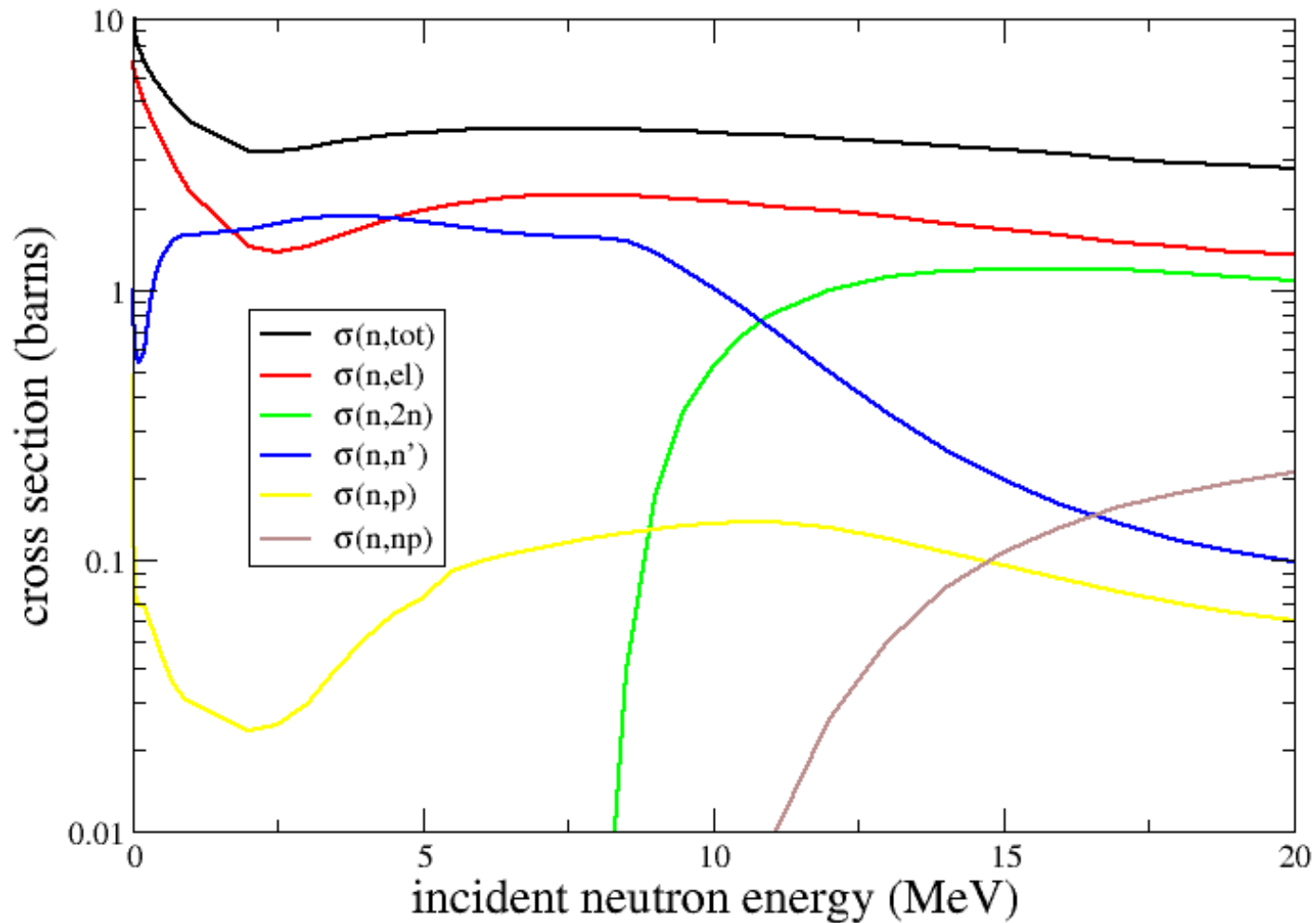
- $^{74}\text{As}$ :
  - MF=2: Taken from the JEFF-3.1 evaluation.
  - MF=3: Evaluated by J. Pruet, D. McNabb & E. Ormand (UCRL-TR-210452). Based on EMPIRE calculations with spherical Koning-Delaroche OMP.
  - MF=4,6,12,14: EMPIRE calculations.
- $^{75}\text{As}$ :
  - MF=2: Taken from JENDL-3.3 evaluation.
  - MF=3: (n,total) and (n,2n) fit to experiment. Other cross sections from EMPIRE calculations w/ spherical Koning-Delaroche OMP. These have been uniformly rescaled to preserve evaluated total cross section.
  - MF=4,6,12,14: From the EMPIRE calculations.



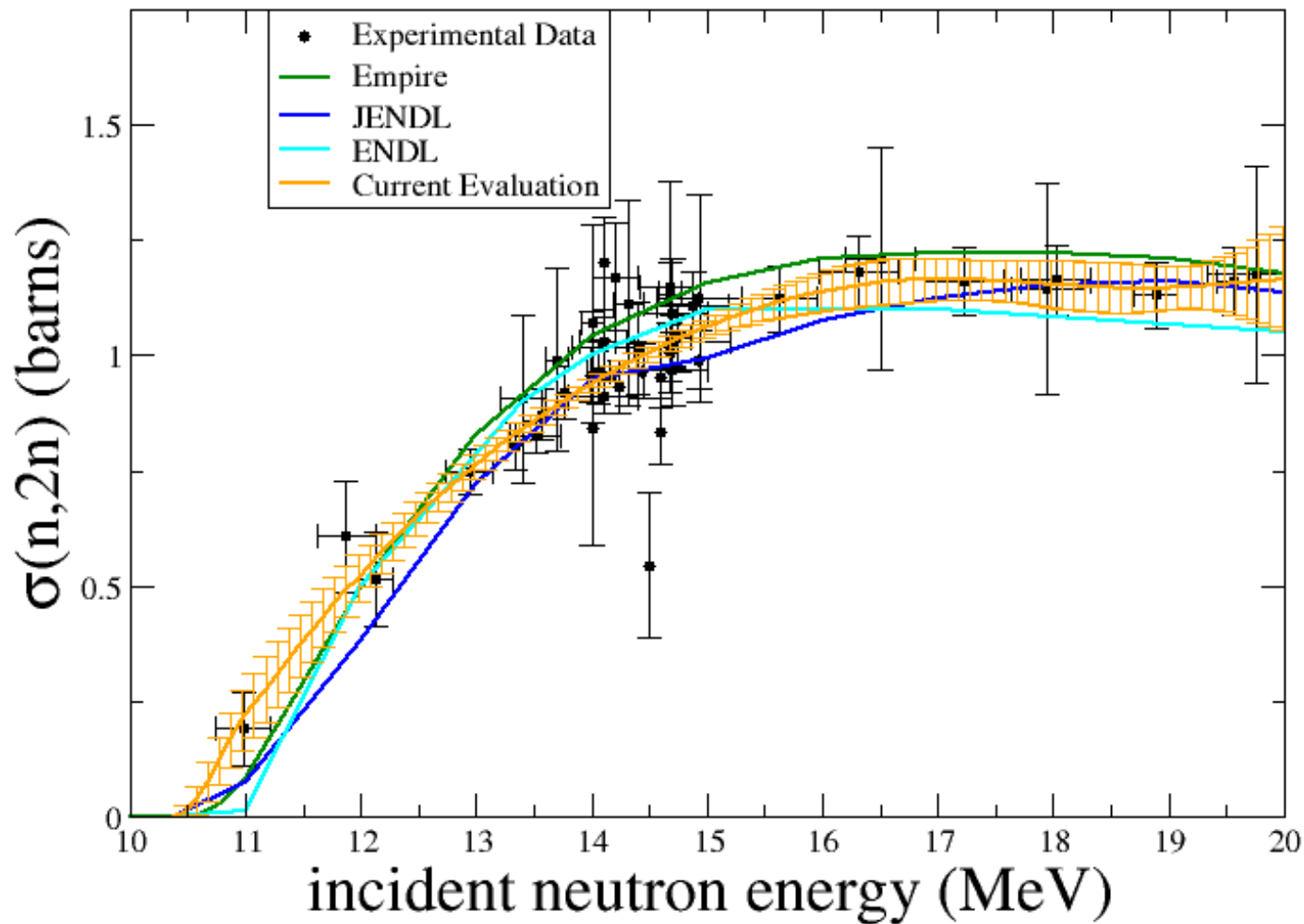
# $^{74}\text{As}(n,2n)$



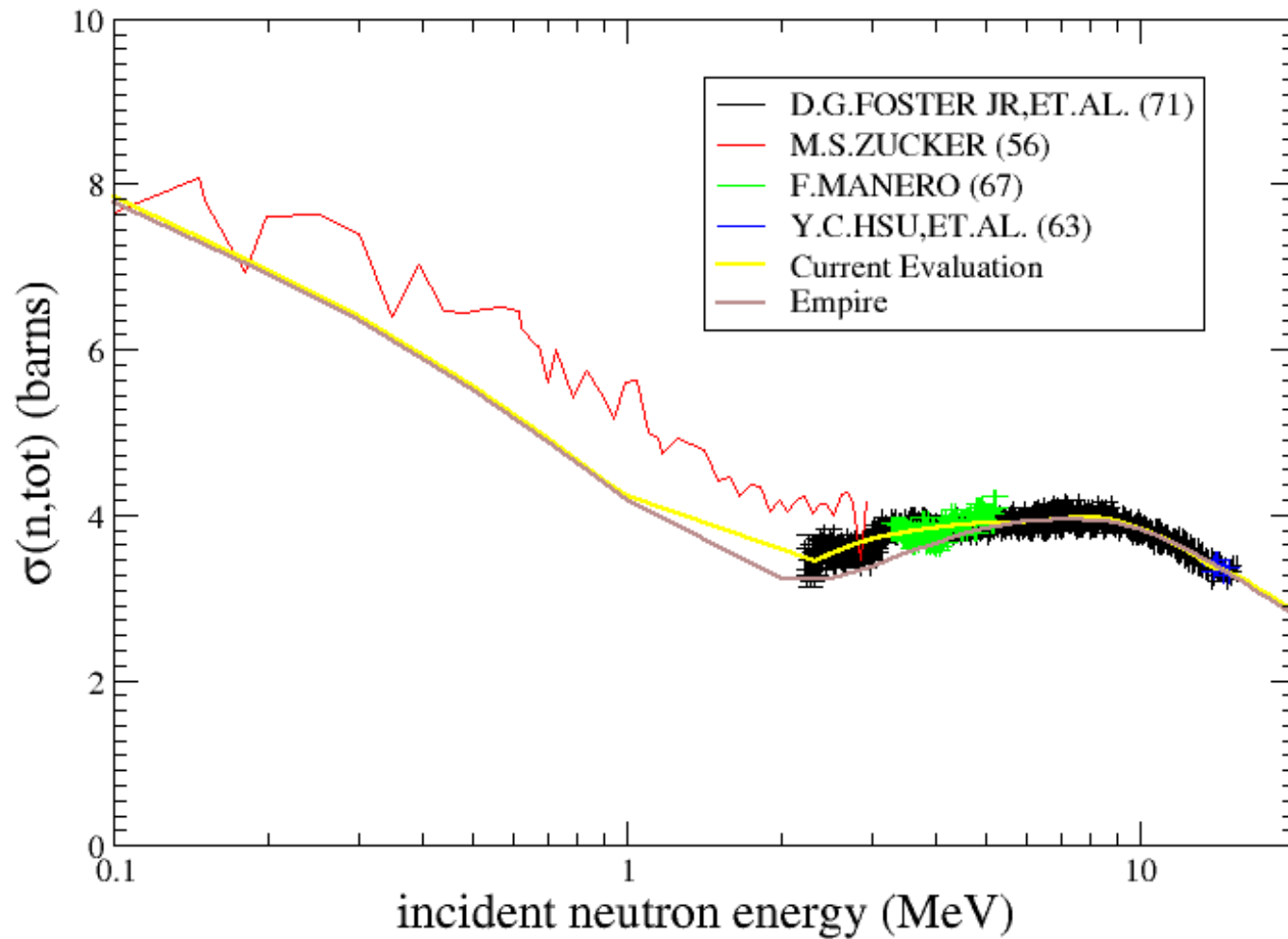
# other $^{74}\text{As}$ cross sections



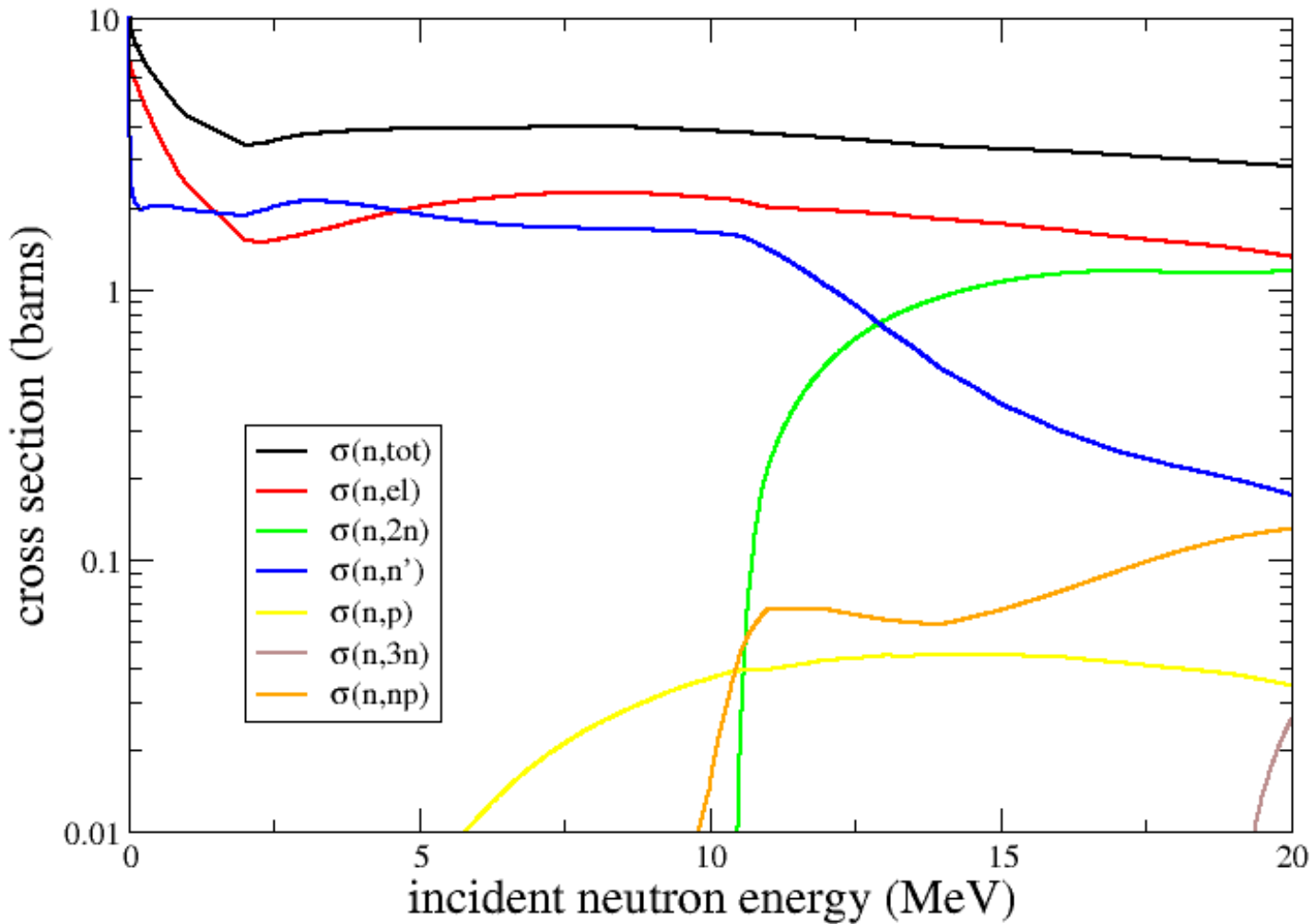
# $^{75}\text{As}(n,2n)$



# $^{74}\text{As}(n,\text{tot})$



# other $^{75}\text{As}$ cross sections



# Remaining problem

- Energy ranges from EMPIRE do not go down to thermal, what should we use and how should we do it?

