

Evaluation needs for cross sections

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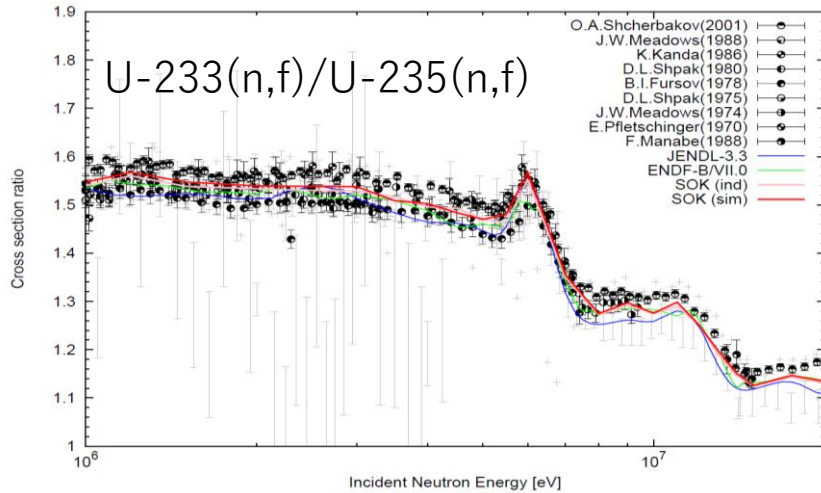
Evaluation procedure for cross sections in the JENDL case

- Reaction model
 - Parameter determination with least square methods or by hand
- No model analysis
 - Least square fitting
- Resonance region
 - Adoption from existing sets of resonance parameters
 - Resonance analysis
 - Modification of RP by hand

Least square fitting

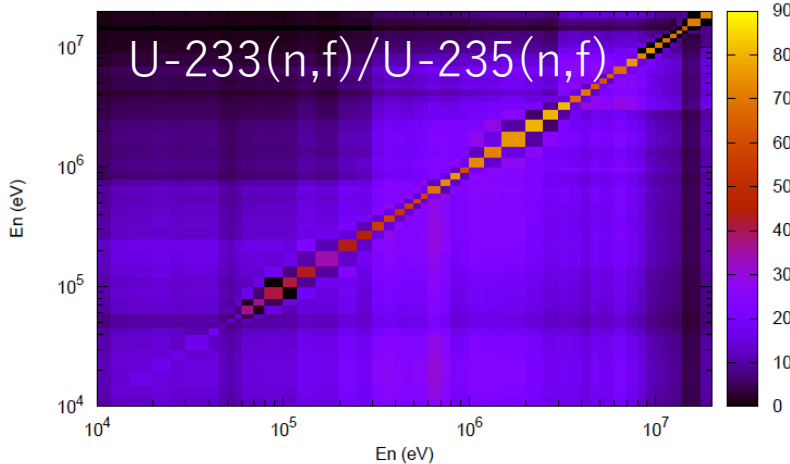
No model

cross section ratio



covariance

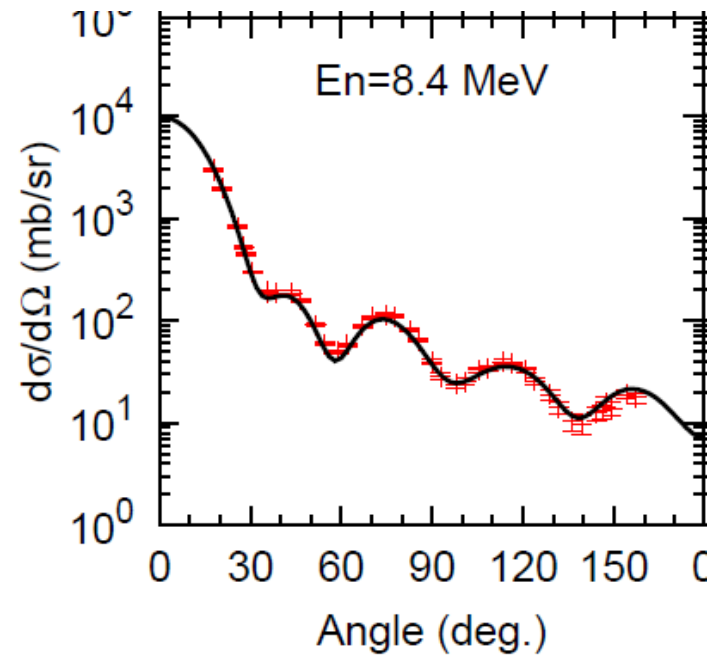
U-233/U-235



with model

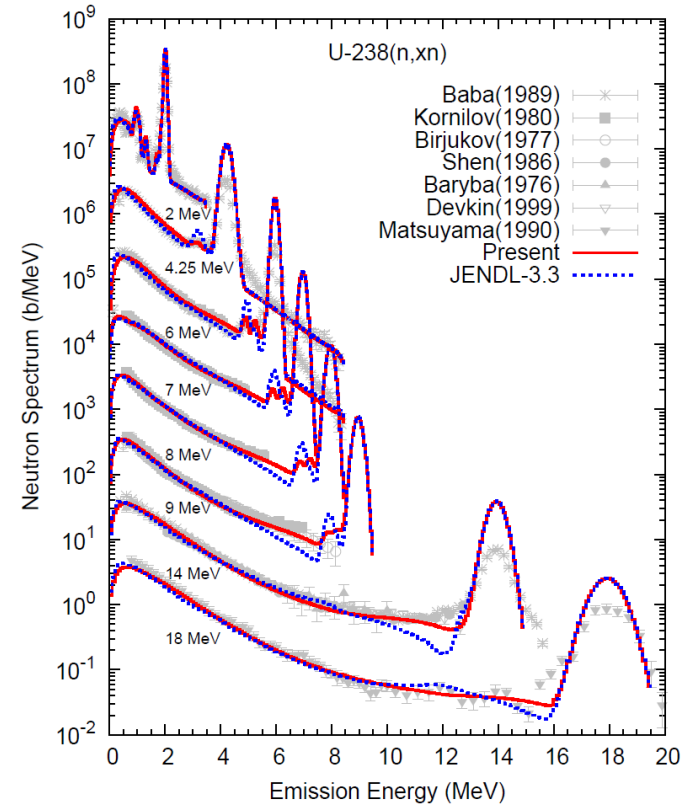
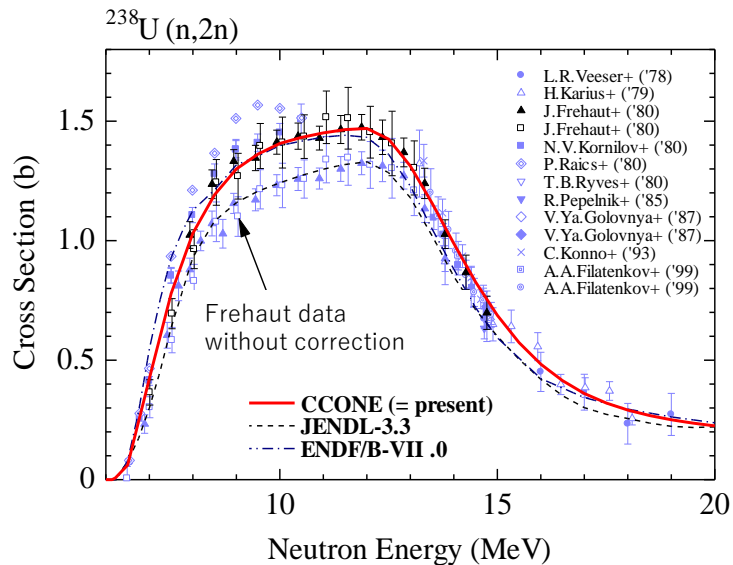
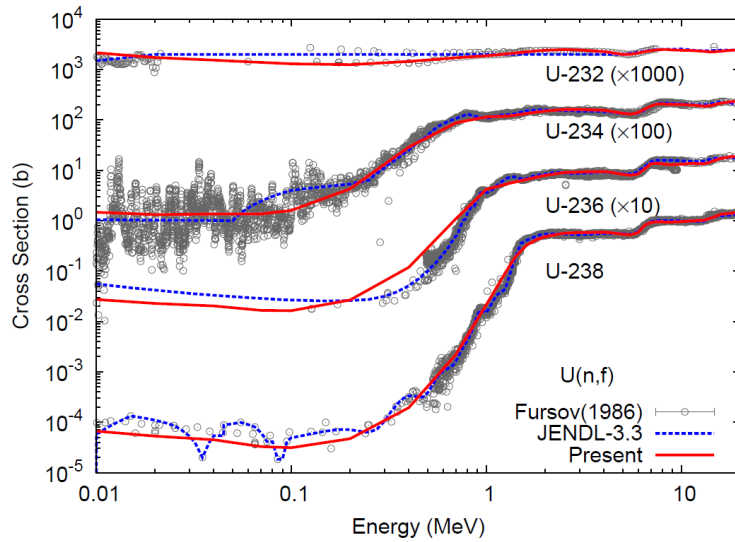
OMP determination

U-238(n,scat) (0⁺+2⁺+4⁺+6⁺)



- Selection of data with reasonable uncertainty is essential.
- Need to avoid adopting duplication of experimental data.
- Need to adopt reasonable systematic uncertainty.

Parameter determination of reaction model



- Parameters are correlated and affect results of cross sections and spectra.
- Need to check consistency of calculated results with many of experimental data as possible.
- Information of nuclear structure are also needed. (isomer, gamma-ray production, ...)

Resonance region

- Resonance analysis

Details of experimental conditions are need.

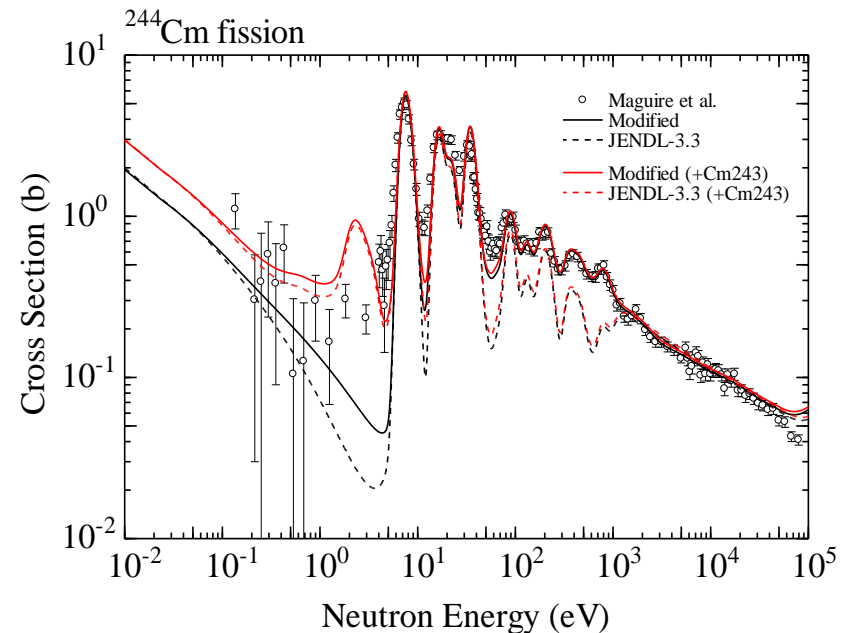
(sample properties, information of data correction, resolution functions, etc.)

- Adoption of published RP

Information of used resonance formula is needed

- RP adjustment by hand

Need to compare with the same energy resolution with the experimental data.



Summary

