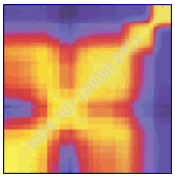

Recent NJOY/ERRORJ Experience

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NJOY99.259, was released in the Fall, 2007 (http://t2.lanl.gov/codes/njoy99/index.html).

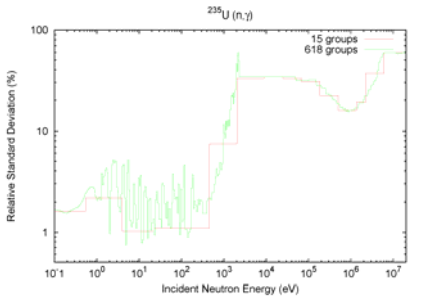
This version of NJOY99 includes version 2.3 of ERRORJ (version 2.2 of ERRORJ is available as a stand-alone program from RSICC).

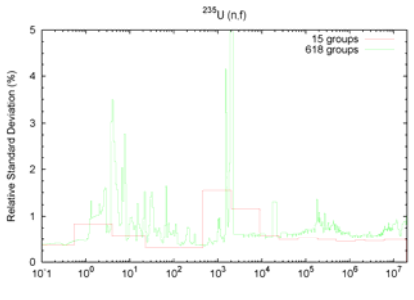
Test problems, provided by Go Chiba, that process JENDL-3.3 ^{238}U covariance data from files 31, 33, 34 and 35 have been successfully executed. These jobs include resolved resonance parameter processing.

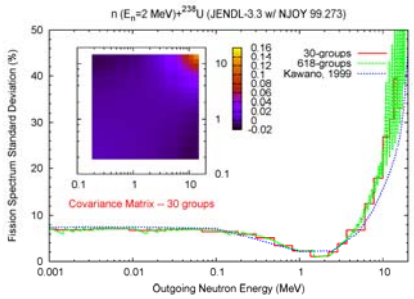
An additional test problem involving correlations among JENDL-3.3 ^{235,238}U and ^{239}Pu has also been successfully executed.

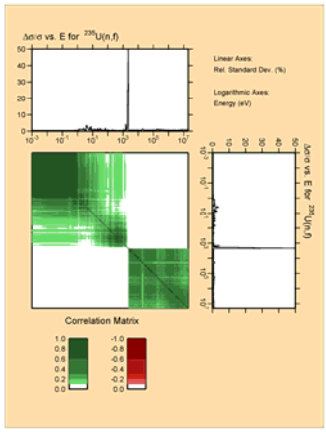
Testing of new ^{233,235,238}U and ^{239}Pu covariance data for potential inclusion in future versions of ENDF/B-VII is currently in progress.

This work was carried out under the auspices of the National Nuclear Security Administration of the U.S. Department of Energy at Los Alamos National Laboratory under Contract No. DE-AC52-06NA25396.









❑Future Work (NJOY99)

- ❑*Investigate "spikes" at the RR/URR boundary in cross section uncertainties for latest actinide files.*
- ❑*File 34 Processing*
  - ❑*Add plotting capability.*
- ❑*File 35 Processing*
  - ❑*Add plotting capability.*
  - ❑*Resolve differences in Japanese (^{252}Cf, for example) data format and explicit ENDF/B6 format.*
  - ❑*Matrix summation rule.*

❑***Plots above, courtesy of Patrick Talou, using (the soon to be released) NJOY99.273.***

❑More Future Work

- ❑*Release NJOY2008 later this year.*
- ❑*Retain existing NJOY99 Capability, plus:*
  - ❑*Based upon Fortran 90/95 coding standards.*
  - ❑*Process Limited Reich-Moore resolved resonance format (LRF=7).*