

Decay Data Library In ENDF/B-VII

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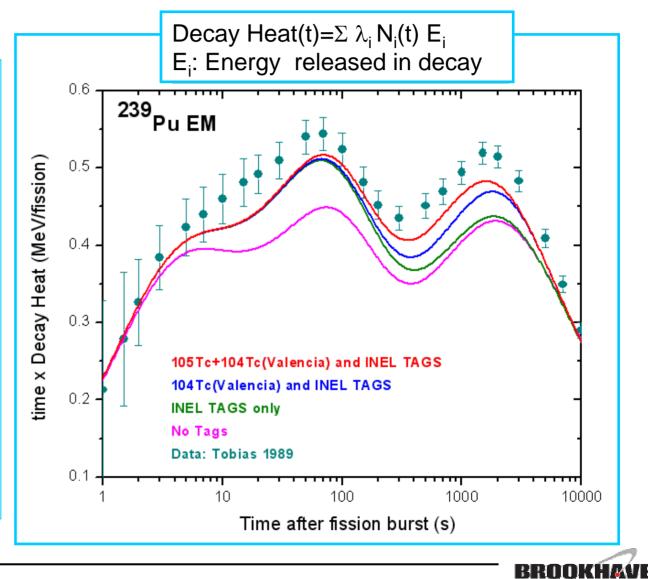


Brookhaven Science Associates



Decay Heat Calculations

- New TAGS data from
 Valencia/Surrey
 collaboration
- Experiments performed in ISOLDE and Jyvaskyla
- Only 2 nuclides considerably improved the prediction of EM decay heat



CSEWG-USNDP 2006

NATIONAL LABO



Delayed Neutrons

 v_d =0.0159/fission

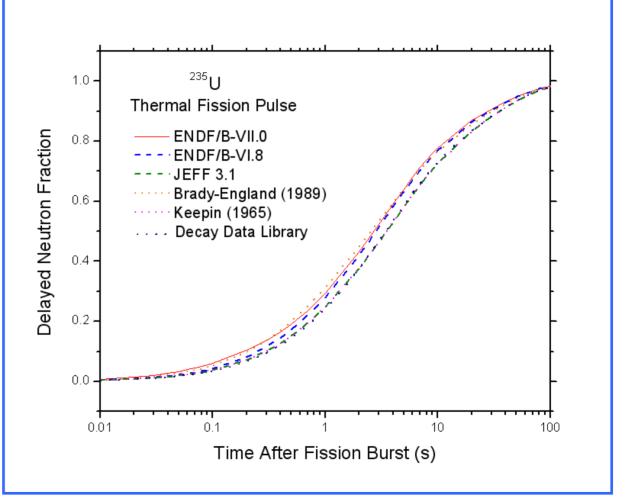
(using ENDF/B-VII.0 decay data library and JEFF-3.1 fission yields)

Very close to Keepin and JEFF-3.1 time dependence

ENDF/B-VII.0:

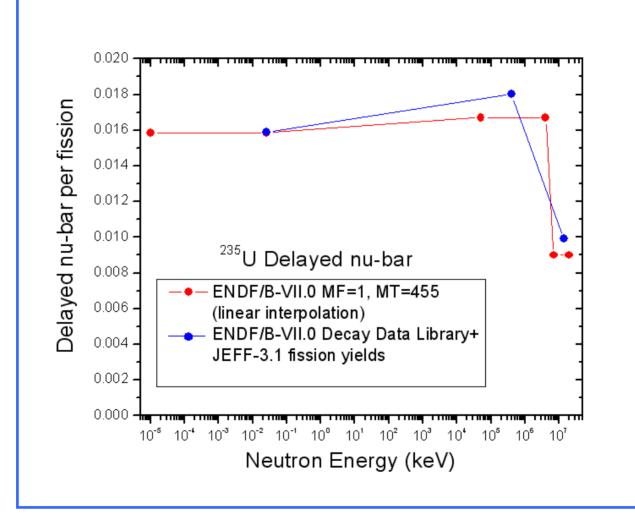
NND

 v_d =0.01585/fission





Delayed Neutrons





Alejandro Sonzogni

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Summary

- □ New decay library as part of ENDF/B-VII.0
- □ Please send comments before final release
- □ Validated with Decay Heat and Delayed Neutron calculations.
- □ Sensitivity study to obtain list of priority nuclides, feedback to experimenters.

