

Agenda for the first meeting of WPEC Subgroup 37 on improved fission product yield evaluation methodologies.

The meeting will be held between 2 and 6pm at the NEA Databank on Wednesday May 22, 2013.

In the agenda below, the work of SG37 is divided into the 3 tasks areas.
Presentations are invited from attendees in these task areas.

Those not able to attend can send contributions or comments for consideration.

14:00 Welcome and introductions

Presentation: Subgroup 37 description- R. Mills

Discussion of Task 1:

Document and compare existing methodologies.

Presentations

R. Mills	JEFF fission product yield evaluation methodologies
T. KAWANO	Recent FPY evaluation for ENDF
K-H Schmidt	A new theoretical approach to low-energy fission based on general laws of quantum and statistical mechanics

Discussion of Task 2:

Through insights amongst the subgroup participants, together with new measurements being made, the participants will strive to better understand and reconcile existing fission product yield discrepancies.

Tasks include:

- Analyze the implications of new measurements techniques which offer a qualitative and potentially a quantitative leap forward, for updating the current evaluated files.
- Examine the existing and planned fission product yield measurements and consider how to improve the current evaluation methodologies to gain maximum benefit from these new sources of data.
- Examine the use of the new theoretical methods to model yield distributions compared to existing models and the measurements, including for example, the recently published Lohengrin measurements and the LANL/CEA fast and 14 MeV plutonium measurements.

Presentations

V. Vallet	Requirements for fission products yields in decay heat studies
Nengchuan SHU	Study of mass distribution for n+233U fission with semi-empirical model
H. Penttila	Fission yields measurements at IGISOL-4
V. Simutkin	Fission yield activities at Uppsala University
K-H Schmidt	New experiments on low-energy fission - Methods and results

Discussion of Task 3:

Possible new fission product data, formats and use including covariance data.

Presentations

M. Pigni Application of Decay Data and Fission Product Yield covariance matrices in uncertainty quantification on burned fuel calculations

K-H Schmidt A new evaluation method based on covariances from the GEF model

18:00 Conclude

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