

OECD/NEA Meeting: WPEC SG42

“Thermal Scattering Kernel $S(\alpha, \beta)$: Measurement, Evaluation and Application”

May 13 – 14, 2017 • Paris, France

SG42 Meeting Preliminaries

Ayman I. Hawari, NC State University, USA
Gilles Noguere, CEA, France

Agenda

- ❑ Tuesday 2:00 – 5:00 PM
 - TSL activities at different organizations

- ❑ Wednesday 9:00 AM – 2:30 PM
 - Experimental activities
 - Benchmarks and uncertainties

- ❑ Thursday 9:00 AM – 12:00 PM
 - Discussion – Final report

Discussion

- ❑ Progress of TSL evaluations for various materials
 - Recent contributions to various databases (ENDF, JEFF, JENDL,...)
- ❑ Development of evaluation methods and tools
 - Atomistic simulation methods
 - Advanced tools (approximation free)
- ❑ Data measurements and benchmarks
 - TSL measurements
 - Total cross section measurements
 - Benchmark experiments
- ❑ Theory-measurements connections
 - How measurements are used?
- ❑ Data uncertainties
 - Representative TSL covariance data set
- ❑ Data formats
 - Transition to GND
- ❑ Others ...

Thoughts

- ❑ Major modernization of TSL generation methods
 - Many updated and first-of-kind TSL libraries contributed to various databases (ENDF, JEFF, JENDL, etc.)
 - Motivating measurements and benchmarks
 - New views on uncertainty quantification