

Program

19–22 Apr 2022

Technical Meeting on Nuclear Heating Theory and Data

Vienna International Centre, C0213
Vienna International Centre

Table of contents

1	Tuesday 19 Apr	
Technical Discussion		1
Lunch Break		1
NHtd white paper		1
Toward a consistent calculation of prompt and beta decay observables from fission fragment		1
Estimation of decay heat from Spent Nuclear Fuel: a PSI example		1
Discussion		1
2	Wednesday 20 Apr	
Technical Discussion		2
Lunch Break		2
Missing secondary gamma ray lines in ENDF/B-VIII.0 library		2
KERMA calculation using TRIPOLI-4 and kinematics distributions of secondary particles.		2
NJOY's heatr, gaspr, groupr usage, capability, and limitation		2
Discussion		2
3	Thursday 21 Apr	
Technical Discussion		3
Lunch Break		3
Comparative study of PHITS code and NJOY for recoil cross section spectra under neutron irradiation		3
A Generalized Framework for In-Line Energy Deposition in Monte Carlo Radiation Transport Simulations		3
Using FUDGE and GIDI+ API to calculate energy deposition and other energy quantities		3
Discussion		3
4	Friday 22 Apr	
Technical Discussion		4
Lunch Break		4
Neutron heating of metastables with NJOY		4
Decay-heat validation of simulations with 14 MeV neutrons for fusion		4
Discussion and adjourn		4

Tuesday 19 April

11:00	Technical Discussion Break
12:00	
12:00	Lunch Break Break
14:00	
14:00	NHtd white paper Contribution Speaker: Jean-Christophe SUBLET
14:45	
14:45	Toward a consistent calculation of prompt and beta decay observables from fission fragment Contribution Speaker: Shin OKUMURA
15:45	
15:45	Estimation of decay heat from Spent Nuclear Fuel: a PSI example Contribution Speaker: Dimitri Rochman
16:30	
16:30	Discussion Break
17:00	

Wednesday 20 April

10:00

Technical Discussion

Break

12:00

12:00

Lunch Break

Break

14:00

14:00

Missing secondary gamma ray lines in ENDF/B-VIII.0 library

Contribution | Speaker: Marie-Laure Mauborgne

14:45

14:45

KERMA calculation using TRIPOLI-4 and kinematics distributions of secondary particles.

Contribution | Speaker: Cedric Jouanne

15:45

15:45

NJOY's heatr, gaspr, groupr usage, capability, and limitation

Contribution | Speaker: Jean-Christophe SUBLET

16:30

16:30

Discussion

Break

17:00

Thursday 21 April

10:00	Technical Discussion Break
12:00	
12:00	Lunch Break Break
14:00	
14:00	Comparative study of PHITS code and NJOY for recoil cross section spectra under neutron irradiation Contribution Speaker: Yosuke Iwamoto
14:45	
14:45	A Generalized Framework for In-Line Energy Deposition in Monte Carlo Radiation Transport Simulations Contribution Speaker: David Griesheimer
15:30	
15:30	Using FUDGE and GIDI+ API to calculate energy deposition and other energy quantities Contribution Speaker: Bret Beck
16:15	
16:15	Discussion Break
17:00	

Friday 22 April

10:00	Technical Discussion Break
12:00	
12:00	Lunch Break Break
14:00	
14:00	Neutron heating of metastables with NJOY Contribution Speaker: Tim Gaines
14:45	
14:45	Decay-heat validation of simulations with 14 MeV neutrons for fusion Contribution Speaker: Mark Gilbert
15:30	
15:30	Discussion and adjourn Break
16:00	