Session Program

21–29 Jul 2022



15th International Conference on Nuclear Data for Science and Technology (ND2022)

Fission

Gather.Town

Monday 25 July

09:30

Fission: I

Session | **Location:** American River | **Convener:** Amy Lovell

09:30–09:54

New developments in fission studies within the time-dependent density functional theory framework

Speaker
Aurel Bulgac

09:54–10:06

Influence of fission fragment distributions on prompt emission quantities

Speaker
Anabella Tudora

10:06–10:18

Fission yield model for astrophysical use based on the four-dimensional Langevin model

Speaker
Chikako Ishizuka

10:18–10:30

Langevin approach to fission dynamics with Cassini shape parameterization

Speaker
Kazuki Okada

10:30–10:42

Microscopic simulation of symmetric boost fission with antisymmetrized molecular dynamics

Speakers
Jingde Chen, Satoshia Chiba

10:42–10:54

Modeling the angular momentum removal from fission fragments

Speaker
Ionel Stetcu

11:00

11:45

Fission: II

Session | **Location:** American River | **Convener:** Anton Tonchev

11:45–12:09

Generation of Fragment Angular Momentum in Fission

Speaker
Jorgen Randrup

12:09–12:21

Novel Fully Microscopic Description of Fission: Odd-Even Staggering, Charge Polarization and Machine Learning

Speaker
Marc Verriere

12:21–12:33

Correlations of Gamma-Ray Emission Between Fission Fragments: Experimental and Theoretical Challenges

Speaker
Stefano Marin

12:33–12:45 **Angular momentum of spherical fission products: experimental and theoretical aspects**

Speaker
Olivier Serot

12:45–12:57 **Fission In R-process Elements (FIRE)**

Speaker
Nicolas Schunck

13:15

Tuesday 26 July

06:00

Fission: III

Session | **Location:** American River | **Convener:** Marc Verriere

06:00–06:12

Dependence of TKE of fission fragments in neutron-induced fission on excitation energy by 4D Langevin mode

Speaker
Kazuya Shimada

06:12–06:24

New Results in the Modeling of Fission and Radiative Neutron Capture with FIFRELIN

Speaker
Olivier Litaize

06:24–06:36

Determination of the Plasma Delay Time in PIPS detectors for fission fragments with the LOHENGRIN spectrometer

Speaker
Ana Maria Gomez

06:36–06:48

Simulation and design of a new ion guide for neutron-induced fission at the IGISOL facility

Speaker
Zhihao Gao

06:48–07:12

(WITHDRAWN) Simultaneous measurements of prompt fission γ-rays and neutrons with CLLBC detectors

Speaker
Cristiano Lino Fontana

07:30

09:30

Fission: IV

Session | **Location:** American River | **Convener:** Maria Anastasiou

09:30–09:42

The fast neutron induced fission of actinide nuclei-TKE and Mass Distributions

Speaker
Walter Loveland

09:42–09:54

Experimental Prompt Fission Neutron Spectra for the ^{235,238}U(n,f), ^{239}Pu(n,f), and ^{240,242}Pu(sf) Reactions

Speaker
Matthew Devlin

09:54–10:06

Fission Product Yields from Neutron-Induced Fission of Major Actinides at 6.5 MeV

Speaker
Ronald Malone

10:06–10:18 **Measurement of Independent Fission Product Yields with SPIDER**

Speaker
Panagiotis Gastis

10:18–10:30
The Extension of the Deterministic Hauser-Feshbach Fission Fragment Decay Model to Multi-chance Fission and its Extension to ^{239}Pu

Speaker
Amy Lovell

11:00

11:15

Fission: V

Session | **Location:** American River | **Convener:** Lucas Snyder

11:15–11:39
Measurements of fission product masses and isotopic yields from ^{252}Cf spontaneous fission at the FRS Ion Catcher

Speaker
Yuval Waschitz

11:39–11:51 **Energy Dependent Fission Product Yields from Neutron Induced Fission**

Speaker
Anton Tonchev

11:51–12:03 **Measuring the ^{235}U(n,f)/^{6}Li(n,t) cross section ratio in the NIFFTE fissionTPC**

Speakers
Maria Anastasiou, the NIFFTE Collaboration

12:03–12:15 **Spectral averaged cross sections as a probe to a high energy tail of ^{235}U PFNS**

Speaker
Martin Schulc

12:45

Wednesday 27 July

06:00

Fission: VI

Session | **Location:** American River | **Convener:** Andrea Mattera

06:00–06:24

New measurement of the ^{235}U($n_{\rm th}$,f) fission yields and development of a Time of Flight line at the LOHENGRIN spectrometer

Speaker
Christophe Sage

06:24–06:36 **Measurement of ^{6}Li(n,t) and ^{235}(n,f) with cold neutrons**

Speaker
Pieter Mumm

06:36–06:48

Charge polarization calculated with a microscopic model for the fission fragments of U-236

Speaker
Shuichiro Ebata

06:48–07:00 **Experimental determination of fission barrier parameters**

Speaker
Andreas Oberstedt

07:30

07:45

Fission: VII

Session | **Location:** American River | **Convener:** Denise Neudecker

07:45–08:09

(WITHDRAWN) Isomeric yield ratio measurements from ^{232}Th(α,f) for investigation of the mechanism for angular momentum generation in fission

Speaker
Stephan Pomp

08:09–08:21 **Studying the impact of updated isomeric yield ratios on reactor antineutrino spectra**

Speaker
Andrea Mattera

08:21–08:33

Fission Neutron Spectrum Induced Short-Lived Fission Product Yields of ^{235}U, ^{238}U, ^{239}Pu and ^{237}Np

Speaker
Jason Harke

08:33–08:45 **Short-lived fission products from neutron-induced fission of ^{235,238}U**

Speaker
Anthony Ramirez

08:45–08:57

Fission product Yields from Photon-induced Fission of ^{240}Pu and Neutron-induced Fission of ^{239}Pu as a Function of Incident Energy

Speaker
Jack Silano

09:15

11:00

Fission: VIII

Session | **Location:** American River | **Convener:** Nicolas Schunck

11:00–11:24 **Complete Fission-Fragment Identification with the FALSTAFF Spectrometer**

Speaker
Diego Ramos

Location
American River

11:24–11:36

Measurement of the ^{239}Pu(n,f)/ ^{235}U(n,f) Cross-Section Ratio with the NIFFTE fission Time Projection Chamber

Speaker
Lucas Snyder

Location
American River

11:36–11:48

Measurement of the neutron-induced fission cross section of ^{235}U relative to neutron-proton elastic scattering at CERN-n_TOF: results from 20 MeV to 200 MeV

Speakers
Elisa Pirovano, the n_TOF Collaboration

Location
American River

11:48–12:00

Measurement of the ^{235}U(n,f) cross section relative to n-p scattering up to 500 MeV at the n_TOF facility at CERN

Speakers
Alice Manna, the n_TOF Collaboration

Location
American River

12:00–12:12

Experimental study of high-energy fission and quasi-fission dynamics with fusion-induced fission reactions at VAMOS++

Speaker
Daniel Fernandez

12:12–12:24

Comprehensive investigation of fission yields by using (p,2p)- induced fission in inverse kinematics.

Speaker
José Luis Rodríguez Sánchez

Location
American River

12:30

Thursday 28 July

06:00

Fission: IX

Session | **Location:** American River | **Convener:** Diego Ramos

06:00–06:24

Fission-fragment yields and prompt-neutron multiplicity for Coulomb-induced fission of ^{234,235}U and ^{237,238}Np [1]

Speaker
Audrey Chatillon

06:24–06:36

Measurement of the prompt fission γ-rays from ^{235}U(n,f) with STEFF

Speakers
Tobias Wright, the n_TOF Collaboration

06:36–06:48

Prompt gamma-ray multiplicity in fast neutron-induced fission of $^{239}\mathrm{Pu}$

Speaker
Nathan Giha

06:48–07:00

Photofission and photoneutron cross sections for ^{238}U and ^{232}Th

Speaker
Dan Mihai Filipescu

07:00–07:12

Consistent Evaluations of Prompt Neutron Observables

Speaker
Denise Neudecker

07:30