Session Program

21–29 Jul 2022



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

Libraries

Gather.Town

Monday 25 July

09:30

Libraries: I

Session | **Location:** Delta King | **Convener:** Osamu Iwamoto

09:30–09:54 **The TENDL library: progress, success, and lessons learned**

Speaker
Dr Arjan Koning

09:54–10:06
ACEMAKER: A processing system for producing ACE-formatted files for Monte Carlo calculations

Speaker
Mr Daniel Lopez Aldama

10:06–10:18
GIDI+: a GNDS 2.0 suite of C++ APIs to access nuclear and atomic data for use in neutronic transport codes.

Speaker
Bret Beck

10:18–10:30 **Current status of the GALILEE-1 processing code**

Speaker
Dr Cédric Jouanne

10:30–10:42 **Getting NJOY ready for ENDF/B-VIII.1**

Speaker
Wim Haeck

10:42–10:54 **The current status of nuclear data processing code NECP-Atlas**

Speaker
Dr Tiejun Zu

11:00

11:45

Libraries: II

Session | **Location:** Delta King | **Convener:** Bret Beck

11:45–12:09 **Towards implementing new isotopes for environmental research: The half-life of ^{32}Si**

Speaker
Mario Veicht

12:09–12:21 **Validating Gamma-rays Produced in Nuclear Reactions**

Speaker
Isabel Hernandez

12:21–12:33
Resolved Resonance Region Analysis of ^{206}Pb, ^{207}Pb, AND ^{208}Pb in Support of Next Generation Lead-Cooled Fast Systems.

Speaker
Peter Brain

12:33–12:45

Statistical Uncertainty Quantification of Probability Tables for Unresolved Resonance Cross Sections

Speaker
Dr Kenichi Tada

12:45–12:57 **Updates and Validation for the n+63,65Cu Cross Sections**

Speaker
Jordan McDonnell

12:57–13:09 **Results from the ARTIE experiment**

Speaker
Luca Pagani

13:15

Wednesday 27 July

11:00

Libraries: III

Session | **Location:** Delta King | **Convener:** Arjan Plompen

11:00–11:24 **ENSDF Modernization and Expansion with Machine Learning Tools for Data Ingestion**

Speaker
Chris Morse

11:24–11:36 **Enhancing User Experience to Facilitate Nuclear Physics Research through NuDat**

Speaker
Donnie Mason

11:36–12:00 **X4Pro - universal, fully relational EXFOR database**

Speaker
Dr Viktor Zerkin

12:00–12:12 **A Graph Theory Approach to the GNDS Schema Definition**

Speaker
Godfree Gert

12:12–12:24 **A Python-Based Nuclear Data Visualization Package**

Speaker
Nathan Gibson

12:30

Thursday 28 July

06:00

Libraries: IV

Session | **Location:** Delta King | **Convener:** Zhigang Ge

06:00–06:24 **75 Years of Experimental Nuclear Reaction Data Compilations**

Speaker
Boris Pritychenko

06:24–06:36 **Database work for the new Cross Section Standards Evaluation**

Speaker
Allan Carlson

06:36–06:48 **Impact of adjustment with criticality and reaction rate data**

Speaker
Robert Casperson

06:48–07:00 **WPEC/SG46 Exercise on Target Accuracy Requirement**

Speaker
Prof. Oscar Cabellos

07:00–07:12 **Assimilation of integral experiments on high-energy nuclear parameters**

Speaker
Dr Elias Vandermeersch

07:12–07:24
(WITHDRAWN) Use of a Kubernetes Cluster of Docker Containers in Automating Nuclear Data Quality Assurance

Speaker
Ramon Arcilla

07:30

07:50

Libraries: V

Session | **Location:** Delta King | **Convener:** Elizabeth McCutchan

07:50–08:14 **General-purpose nuclear data library JENDL-5 and to the next**

Speaker
Osamu Iwamoto

08:14–08:26 **Status of the ENDF/B-VIII.1 Library**

Speaker
Gustavo Nobre

08:26–08:38 **Updated Chinese Evaluated Nuclear Data Library and Its Applications**

Speaker
Zhigang GE

08:38–08:50 **Deuteron and alpha sub-libraries of JENDL-5**

Speaker
Dr Shinsuke Nakayama

08:50–09:02 **Status and perspective of the development of JEFF-4**

Speaker
Arjan Plompen

09:02–09:14 **Sensitivity analysis of JEFF-3.3 and ENDF/B-VIII.0 for a light water reactor**

Speaker
Dr Francisco Alvarez-Velarde

09:20

09:40

Libraries: VI

Session | **Location:** Delta King | **Convener:** Cedric Jouanne

09:40–09:52
Processing of JEFF nuclear data libraries for the SCALE Code System and testing with criticality benchmark experiments

Speaker
Mr Antonio Jimenez-Carrascosa

09:52–10:04 **Managing and processing nuclear data libraries with FUDGE**

Speaker
Caleb Mattoon

10:04–10:16 **Application-Dependent Multigroup Weighting applied to Critical Benchmarks**

Speaker
Andrew Till

10:16–10:28
Development and Verification of Capability for Processing the Generalised Nuclear Database Structure (GNDS) in Nuclear Data Processing Code NECP-Atlas

Speaker
Yihan Huang

10:28–10:40 **Recent Developments in the Nuclear Data Processing Code AMPX**

Speaker
Jordan McDonnell

11:10