**Session Program**

**21–29 Jul 2022**



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

## *Poster session*

Gather.Town

# Tuesday 26 July

07:45

## Poster session: I

**Session** | **Location:** Gold Rush

07:45–07:48

**Comparison of double-differential cross section between nuclear data library and experimental data for photoneutron production**

**Speaker**
Dr Kim Tuyet Tran

07:48–07:51 **Activation Cross Section Measurement of the (n,2n) Reaction on 203Tl**

**Speakers**
Maria Diakaki, Maria Diakaki

07:51–07:54

**Fusion excitation function studies in the reactions forming medium heavy compound system**

**Speaker**
Visakh A C

07:54–07:57

**Using Monte-Carlo method to analyze experimental data and produce uncertainties and covariances.**

**Speaker**
Dr Greg Henning

07:57–08:00 **Experimental measurement of 183W(n, n'γ) and (n, 2nγ) cross sections (preliminary)**

**Speaker**
Greg Henning

08:00–08:03

**Experiment-based determination of the excitation function for the production of $^{44}$Ti in proton-irradiated vanadium samples**

**Speaker**
Mario Veicht

08:03–08:06

**Measurement of differential and double differential cross-section for natural Gallium at 8.0 MeV neutrons**

**Speaker**
Hanxiong Huang

08:06–08:09

**Target mass dependence of photoneutron spectrum for 16.6MeV photons on medium-heavy mass targets**

**Speaker**
Toshiya Sanami

08:09–08:12

**First on-beam measurements with the new detection system for the measurements of light-ion products of nuclear reactions induced by fast neutrons with energies from 18 to 33 MeV**

**Speaker**
Mr Martin Ansorge

08:12–08:15 **Time dependence of prompt fission $\gamma$-ray emission**

**Speaker**
Andreas Oberstedt

08:15–08:18
**Prediction of prompt neutron spectra of the photon induced reactions on the 238U and 232Th targets at incident energies from 4 and 22 MeV**

**Speaker**
Anabella Tudora

08:18–08:21
**Application of Multipole humped fission barriers in the Unified Hauser-Feshbach and Exciton Model for Fission Nuclei**

**Speaker**
Yuan Tian

08:21–08:23 **Role of transport coefficients in fission dynamics**

**Speaker**
Mr Kazuki Okada

08:23–08:25 **Towards a Langevin Model for the Stochastic Dynamics of Nuclear Fission**

**Speaker**
Trevor Sprouse

08:25–08:27 **Theoretical calculation and evaluation for n+232,234,236,237U reactions**

**Speaker**
Yinlu Han

08:27–08:29
**(WITHDRAWN) Improving the prediction of TSL on-the-fly based on deep neural networks using experimentally measured double differential data and dynamic structure factor**

**Speaker**
Vaibhav Jaiswal

08:29–08:31
**Calculation of fission product mass distribution by using a semi-empirical model and neutron multiplicity data**

**Speaker**
Jounghwa Lee

08:31–08:33 **Thermal scattering libraries for cold and ultra-cold neutron reflector materials**

**Speaker**
Douglas Di Julio

08:33–08:35
**The validation of S(α,?) thermal neutron scattering libraries using pulsed-neutron die-away experiments**

**Speaker**
Mr Benjamin Wang

08:35–08:36 **Evaluation of Thermal Neutron Scattering Law and Cross Sections for Calcium Hydride**

**Speaker**
Mr Benjamin K. Laramee

08:36–08:37 **Validation of calculational determination of 18O(p,n) secondary neutron field**

**Speaker**
Marek Zmeškal

08:37–08:38 **(WITHDRAWN) Short-Lived Fission Product Yield Results At Oregon State University**

**Speaker**
Aaron Tamashiro

09:00

# Wednesday 27 July

09:30

## Poster session: II

**Session** | **Location:** Gold Rush

09:30–09:33
**Federated Transfer Learning for Scalable Condition based Monitoring of Nuclear Power Plant Components**

**Speaker**
Koushik Araseethota Manjunatha

09:33–09:36 **Network-based Data Acquisition and Control for BGS and FIONA experiments**

**Speaker**
John Gooding

09:36–09:39 **FLUKAVAL - A validation framework for the FLUKA radiation transport Monte Carlo Code**

**Speaker**
Markus Widorski

09:39–09:42
**Application of Machine Learning algorithms for experimental data processing and estimation of 96Mo (n, p) 96Nb reaction cross section**

**Speaker**
Sangeetha Prasanna Ram

09:42–09:45 **Unscented Transform Kalman filter for Optical model parameter uncertainty quantification**

**Speaker**
Mr Aman Sharma

09:45–09:48 **Calculations and Evaluations of n+ 107,109Ag Reactions below 20 MeV**

**Speaker**
Tingtai Wang

09:48–09:51
**Design study of benchmark experiment for large angle scattering cross section for non-solid target with 14 MeV neutron**

**Speaker**
Sota Araki

09:51–09:54 **Global Analysis of 4He System with RAC**

**Speaker**
Libo Zhou

09:54–09:57 **CONFLUX – A Flexible, Modular Reactor Neutrino Flux Calculation Framework**

**Speaker**
Dr Xianyi Zhang

09:57–10:00

**BNCODE – THE SCIENTIFIC SUPERVISOR SIMULATION CODE FOR A COMPUTATIONAL SUPPORT OF THE BN REACTORS**

**Speaker**
Viacheslav Mishin

10:00–10:03

**Experimental spectrum average cross sections in $^{252}$Cf(sf) neutron field and its impact on evaluation of Neutron Standards**

**Speaker**
Roberto Capote

10:03–10:06 **Implementation of the RESKR module in NJOY**

**Speaker**
Prof. Alain Hébert

10:06–10:09 **Development of an Interactive System for the Use of Nuclear Data (ISIDA)**

**Speaker**
Darya Panova

10:09–10:12

**Fission product depletion chain simplification method based on quantitative contribution function**

**Speaker**
Lili Wen

10:12–10:14 **Regression analysis of experimental reaction cross-section data of 241Am(n, 2n)240Am**

**Speaker**
Ms Tejashree Phatak

10:14–10:16 **Non-statistical Behaviour of (n,2n) Cross Sections for 14-15 MeV Neutrons**

**Speaker**
Dr Odsuren Myagmarjav

10:16–10:18

**Preequilibrium models for 58Ni(n,xp) reaction in neutrons at 8, 9, 9.4, 11 and 14.8 MeV using the EMPIRE and TALYS codes**

**Speaker**
Leila Yettou

10:18–10:20

**Comparison of binding energy from Atomic Mass Evaluation (AME-2020) with statistical model calculations.**

**Speaker**
Mr Ranjan Sariyal

10:20–10:22

**The effect of high dose rate laser driven radiation on the integrity of amino acids and implications in toxicity evaluation**

**Speaker**
Silvana Vasilca

10:22–10:23

**Expanded COG Criticality Validation Suite for Inter-Laboratory Benchmark Data Comparison**

**Speaker**
David Heinrichs

10:23–10:24

**The Calculation and Comparing of Benchmark Models with ENDF/B-VIII.0 and CENDL-3.2 Fe-56 Nuclear Data**

**Speakers**
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10:45