

Workshop for Applied Nuclear Data Activities (WANDA 2024)

Report of Contributions

Contribution ID: 1

Type: **not specified**

Group photo

Wednesday, 28 February 2024 12:00 (10 minutes)

Session Classification: Lunch

Contribution ID: 2

Type: **not specified**

Welcome

Monday, 26 February 2024 08:00 (5 minutes)

Presenters: LOVELL, Amy (Los Alamos National Laboratory); BROWN, Jesse (Oak Ridge National Laboratory)

Session Classification: Session I

Contribution ID: 3

Type: **not specified**

Fusion Neutronics Summary

Thursday, 29 February 2024 13:00 (20 minutes)

Presenters: KELLY, Keegan (Los Alamos National Laboratory); GUSTAD, Laura (MDA); LOUGHLIN, Mike (ORNL)

Session Classification: Session VIII

Contribution ID: 4

Type: **not specified**

Tritium Production Summary

Thursday, 29 February 2024 13:20 (20 minutes)

Presenters: HUMRICKHOUSE, Paul (ORNL); QUAGLIONI, Sofia (Lawrence Livermore National Laboratory); LYONS, Stephanie (Pacific Northwest National Laboratory)

Session Classification: Session VIII

Contribution ID: 5

Type: **not specified**

Material Damage Summary

Thursday, 29 February 2024 13:40 (20 minutes)

Presenters: ROMANO, Paul (Argonne National Laboratory); WILSON, Paul (University of Wisconsin Madison)

Session Classification: Session VIII

Contribution ID: 6

Type: **not specified**

Isotopes & Targetry for Nuclear Data Summary

Thursday, 29 February 2024 14:00 (20 minutes)

Presenters: Dr O'BRIEN, Ellen (Los Alamos National Laboratory); VERMEULEN, Etienne (Los Alamos National Laboratory); MANUKYAN, Khachatur (Notre Dame); GOTT, Matt (ORNL)

Session Classification: Session VIII

Contribution ID: 7

Type: **not specified**

Uncertainty Quantification Summary

Thursday, 29 February 2024 14:20 (20 minutes)

Presenters: NEUDECKER, Denise (Los Alamos National Laboratory); GIBSON, Nathan (LANL); CASPER-SON, Robert (LLNL); MERTYUREK, ugur (ORNL)

Session Classification: Session VIII

Contribution ID: 8

Type: **not specified**

Closeout

Thursday, 29 February 2024 14:40 (20 minutes)

Presenters: LOVELL, Amy (Los Alamos National Laboratory); BROWN, Jesse (Oak Ridge National Laboratory)

Session Classification: Session VIII

Contribution ID: 9

Type: **not specified**

Introduction from session chairs (goals of session, advertise targetry needs survey)

Wednesday, 28 February 2024 08:00 (5 minutes)

Presenters: Dr O'BRIEN, Ellen (Los Alamos National Laboratory); VERMEULEN, Etienne (Los Alamos National Laboratory); MANUKYAN, Khachatur (Notre Dame); GOTT, Matt (ORNL)

Session Classification: Session V

Contribution ID: **10**

Type: **not specified**

Programmatic Introduction

Wednesday, 28 February 2024 08:05 (5 minutes)

Presenter: JANKOWSKI, Keith (DOE Office of Science, Nuclear Physics)

Session Classification: Session V

Contribution ID: 11

Type: **not specified**

Wanted: Tiny radioactive samples for neutron transmission measurements with DICER at LANSCE

Wednesday, 28 February 2024 08:10 (15 minutes)

Presenter: STAMATOPOULOS, Thanos (Los Alamos National Laboratory)

Session Classification: Session V

Contribution ID: 12

Type: **not specified**

Target needs for neutron induced charged particle measurements at LANSCE

Wednesday, 28 February 2024 08:25 (15 minutes)

Presenter: KUVIN, Sean (LANL)

Session Classification: Session V

Contribution ID: 13

Type: **not specified**

Development of Techniques for Doping NIF Targets with Radioactive Isotopes for (n,2n) Cross Section Measurements

Wednesday, 28 February 2024 08:40 (15 minutes)

Presenter: LABB, Samantha (LLNL)

Session Classification: Session V

Contribution ID: 14

Type: **not specified**

Discussion

Wednesday, 28 February 2024 08:55 (40 minutes)

Presenters: Dr O'BRIEN, Ellen (Los Alamos National Laboratory); VERMEULEN, Etienne (Los Alamos National Laboratory); MANUKYAN, Khachatur (Notre Dame); GOTT, Matt (ORNL)

Session Classification: Session V

Contribution ID: 15

Type: **not specified**

Progress report on the attempts to produce tritium-doped titanium foils at Argonne National Laboratory

Wednesday, 28 February 2024 09:55 (20 minutes)

Presenter: MUELLER-GATERMANN, Claus (ANL)

Session Classification: Session V

Contribution ID: 16

Type: **not specified**

Development of Spherical Metal Powder Targets

Wednesday, 28 February 2024 10:15 (20 minutes)

Presenter: ZACH, Mike (Oak Ridge National Laboratory)

Session Classification: Session V

Contribution ID: 17

Type: **not specified**

Emerging Combustion Synthesis Methods to Prepare Thin Targets for Nuclear Science Research

Wednesday, 28 February 2024 10:35 (20 minutes)

Presenter: MANUKYAN, Khachatur (Notre Dame)

Session Classification: Session V

Contribution ID: **18**

Type: **not specified**

Discussion

Wednesday, 28 February 2024 10:55 (1h 5m)

Presenters: Dr O'BRIEN, Ellen (Los Alamos National Laboratory); VERMEULEN, Etienne (Los Alamos National Laboratory); MANUKYAN, Khachatur (Notre Dame); GOTT, Matt (ORNL)

Session Classification: Session V

Contribution ID: **19**

Type: **not specified**

Session Introduction

Monday, 26 February 2024 13:00 (5 minutes)

Presenter: KELLY, Keegan (Los Alamos National Laboratory)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 20

Type: **not specified**

Importance of Nuclear Data for Activation Calculations of Fusion Systems and Key Differences from Fission

Monday, 26 February 2024 13:05 (15 minutes)

Presenter: FOSTER, David (UKAEA)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 21

Type: **not specified**

Impact of the Latest INDEN Cross Section in Fusion Applications and Update of the Fusion Evaluated Nuclear Data Library (FENDL)

Monday, 26 February 2024 13:20 (15 minutes)

Presenter: BOHM, Tim (Univ. Wisc.-Madison)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 23

Type: **not specified**

Characterization of SHINE's High-Flux DT Neutron Source

Monday, 26 February 2024 13:35 (15 minutes)

Presenter: RADEL, Ross (SHINE)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 24

Type: **not specified**

Nuclear Data for Neutron Sources and Diagnostics and Electrons

Monday, 26 February 2024 13:50 (15 minutes)

Presenter: LOUGHLIN, Mike (ORNL)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 25

Type: **not specified**

Introduction to DoD Neutron Nuclear Data Needs

Monday, 26 February 2024 14:05 (15 minutes)

Presenter: GUSTAD, Laura (MDA)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 26

Type: **not specified**

Discussion

Monday, 26 February 2024 14:30 (30 minutes)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 27

Type: **not specified**

Fusion-Relevant Light Element Nuclear Data Evaluations

Monday, 26 February 2024 15:15 (15 minutes)

Presenter: PARIS, Mark (Los Alamos National Laboratory)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 28

Type: **not specified**

Evaluations for medium- and high-mass nuclei for FUSION application

Monday, 26 February 2024 15:30 (15 minutes)

Presenter: NOBRE, Gustavo (Brookhaven National Laboratory)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 29

Type: **not specified**

Benchmarking of Fusion Data with Pulsed Sphere Experiments

Monday, 26 February 2024 15:45 (15 minutes)

Presenter: CASPERSON, Robert (LLNL)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 30

Type: **not specified**

Neutron Facility Overview for Fusion Neutronics Nuclear Data Measurements

Monday, 26 February 2024 16:00 (15 minutes)

Presenter: KELLY, Keegan (Los Alamos National Laboratory)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: **31**

Type: **not specified**

Discussion

Monday, 26 February 2024 16:15 (45 minutes)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 32

Type: **not specified**

NDWG Welcome and Overview

Monday, 26 February 2024 08:05 (5 minutes)

Presenter: BREDEWEG, Todd (LANL)

Session Classification: Session I

Contribution ID: 33

Type: **not specified**

NDIAWG

Monday, 26 February 2024 08:35 (25 minutes)

Presenter: JANKOWSKI, Keith (DOE Office of Science, Nuclear Physics)

Session Classification: Session I

Contribution ID: 34

Type: **not specified**

NDWG Update

Monday, 26 February 2024 09:00 (5 minutes)

Presenter: ROMANO, Catherine (IB3 Global Solutions)

Session Classification: Session I

Contribution ID: 35

Type: **not specified**

Nuclear Data DNN NNSA

Monday, 26 February 2024 10:10 (25 minutes)

Presenter: MATTERS, David (NNSA NA-221)

Session Classification: Session I

Contribution ID: **36**

Type: **not specified**

DOE IP

Monday, 26 February 2024 09:35 (15 minutes)

Presenter: BALKIN, Ethan (DOE)

Session Classification: Session I

Contribution ID: 37

Type: **not specified**

DTRA

Monday, 26 February 2024 10:35 (20 minutes)

Presenters: KULP, David (DTRA); INGRAHAM, Joanna (Defense Threat Reduction Agency)

Session Classification: Session I

Contribution ID: **38**

Type: **not specified**

FES

Monday, 26 February 2024 09:20 (15 minutes)

Presenter: HALFMOON, Michael (DOE)

Session Classification: Session I

Contribution ID: 39

Type: **not specified**

NCSP

Monday, 26 February 2024 11:25 (15 minutes)

Presenter: BOWEN, Douglas (Oak Ridge National Laboratory)

Session Classification: Session I

Contribution ID: 40

Type: **not specified**

The Nuclear Data Pipeline

Monday, 26 February 2024 11:40 (20 minutes)

Presenter: BROWN, David (BNL/NNDC)

Session Classification: Session I

Contribution ID: 41

Type: **not specified**

Fission product yield measurements using ^{252}Cf spontaneous fission and neutron-induced fission on actinide targets at CARIBU

Thursday, 29 February 2024 08:00 (15 minutes)

Presenter: SAVARD, Guy (ANL)

Session Classification: Session VII

Contribution ID: 42

Type: **not specified**

Solving the 56Mn puzzle

Thursday, 29 February 2024 08:15 (15 minutes)

Presenter: JANDEL, Marian (UMass Lowell)

Session Classification: Session VII

Contribution ID: 43

Type: **not specified**

Gamma Rays Induced by Neutrons

Thursday, 29 February 2024 08:30 (15 minutes)

Presenter: BROWN, David (BNL/NNDC)

Session Classification: Session VII

Contribution ID: 44

Type: **not specified**

White-source neutron-gamma coincidence measurements of gamma production cross sections at LANSCE

Thursday, 29 February 2024 08:45 (15 minutes)

Presenter: DEVLIN, Matthew (LANL)

Session Classification: Session VII

Contribution ID: 45

Type: **not specified**

Evaluation of Gamma-ray Production and Fission Product Yields

Thursday, 29 February 2024 09:00 (15 minutes)

Presenter: KAWANO, Toshihiko (LANL)

Session Classification: Session VII

Contribution ID: 46

Type: **not specified**

Determination of beta-energy spectral shapes in fission products affecting reactor decay heat and anti-neutrino flux and addressing potential physics beyond the standard model

Thursday, 29 February 2024 09:15 (15 minutes)

Presenter: RASCO, Bertis (Oak Ridge National Laboratory)

Session Classification: Session VII

Contribution ID: 47

Type: **not specified**

Modern Structure-based Nuclear Data Evaluations for Basic Science, Nuclear Safety & Security

Thursday, 29 February 2024 09:30 (15 minutes)

Presenter: PARIS, Mark (Los Alamos National Laboratory)

Session Classification: Session VII

Contribution ID: 48

Type: **not specified**

Designing Nuclear-data Measurements that Resolve Discrepancies in Existing Data

Thursday, 29 February 2024 09:45 (15 minutes)

Presenter: NEUDECKER, Denise (Los Alamos National Laboratory)

Session Classification: Session VII

Contribution ID: 49

Type: **not specified**

Two and Three-body Photodisintegration of the Triton at Energies Below 30 MeV

Thursday, 29 February 2024 10:20 (15 minutes)

Presenter: Prof. HOWELL, Calvin (Duke University and TUNL)

Session Classification: Session VII

Contribution ID: 50

Type: **not specified**

Gamma Production Cross Sections for Active Neutron Interrogation with GENESIS

Thursday, 29 February 2024 10:35 (15 minutes)

Presenter: BROWN, Josh (Berkeley)

Session Classification: Session VII

Contribution ID: 51

Type: **not specified**

Modernization and Optimization of the Evaluated Nuclear Structure Data File

Thursday, 29 February 2024 10:50 (8 minutes)

Presenter: MCCUTCHAN, Libby (BNL/NNDC)

Session Classification: Session VII

Contribution ID: 52

Type: **not specified**

Accelerated Decay Data Evaluation and Development of an Adopted Decay Data Library

Thursday, 29 February 2024 10:58 (8 minutes)

Presenter: MCCUTCHAN, Libby (BNL/NNDC)

Session Classification: Session VII

Contribution ID: 53

Type: **not specified**

Benchmarking and validating cosmogenic activation models

Thursday, 29 February 2024 11:06 (8 minutes)

Presenter: HELLINGER, Aaron (PNNL)

Session Classification: Session VII

Contribution ID: 54

Type: **not specified**

Impact of Nuclear Data on Advanced Nuclear Energy Systems Safety and Operation

Thursday, 29 February 2024 11:14 (8 minutes)

Presenter: GERMINA, Ilas (ORNL)

Session Classification: Session VII

Contribution ID: 55

Type: **not specified**

A Comprehensive Self-Consistent Campaign to Determine Reaction Cross Sections, Secondary Gamma-Ray Yields, and Measured Neutron Spectra for Alpha-Induced Reactions on Light Nuclei

Thursday, 29 February 2024 11:30 (8 minutes)

Presenter: FEBBRARO, Mike (USAF)

Session Classification: Session VII

Contribution ID: 56

Type: **not specified**

New measurements of spontaneous fission properties of Pu isotopes

Thursday, 29 February 2024 11:38 (8 minutes)

Presenter: DEVLIN, Matthew (LANL)

Session Classification: Session VII

Contribution ID: 57

Type: **not specified**

Scoping Study for Nuclear Reaction Cross Sections on Short-Lived Fission Products

Thursday, 29 February 2024 11:46 (8 minutes)

Presenter: RATKIEWICZ, Andrew (Lawrence Livermore National Lab)

Session Classification: Session VII

Contribution ID: 58

Type: **not specified**

The Berkeley Atlas: A database of absolute cross sections for inelastic, gamma-ray production with 14 MeV neutrons

Thursday, 29 February 2024 11:22 (8 minutes)

Presenter: PEPELOWSKI, Patrick (Johns Hopkins University Applied Physics Laboratory)

Session Classification: Session VII

Contribution ID: 59

Type: **not specified**

Introduction to Session and Overview

Tuesday, 27 February 2024 08:00 (30 minutes)

Presenter: HUMRICKHOUSE, Paul (ORNL)

Session Classification: Session III

Contribution ID: **60**

Type: **not specified**

Tritium Modernization Program: Overview and Data Needs

Tuesday, 27 February 2024 08:30 (15 minutes)

Presenter: PAGH, Richard (PNNL)

Session Classification: Session III

Contribution ID: 61

Type: **not specified**

Review of Challenges to Achieving Tritium Self-sufficiency

Tuesday, 27 February 2024 08:45 (15 minutes)

Presenter: KHATER, Hesham (LLNL)

Session Classification: Session III

Contribution ID: **62**

Type: **not specified**

Discussion

Tuesday, 27 February 2024 09:15 (25 minutes)

Session Classification: Session III

Contribution ID: 63

Type: **not specified**

Measurements of Neutron-Induced Breakup Reactions from Lithium Isotopes with Fast Neutrons Using an Inertial Confinement Fusion Platform

Tuesday, 27 February 2024 10:00 (15 minutes)

Presenter: FORREST, Chad (LLE/Rochester)

Session Classification: Session III

Contribution ID: 65

Type: **not specified**

Predictive theory for T production

Tuesday, 27 February 2024 10:15 (15 minutes)

Presenter: KRAVVARIS, Konstantinos (Lawrence Livermore National Laboratory)

Session Classification: Session III

Contribution ID: 66

Type: **not specified**

Utilization of a High-Flux DT Neutron Source for Tritium Breeding Experiments

Tuesday, 27 February 2024 10:30 (15 minutes)

Presenter: RADEL, Ross (SHINE)

Session Classification: Session III

Contribution ID: 67

Type: **not specified**

Discussion

Tuesday, 27 February 2024 11:00 (1 hour)

Session Classification: Session III

Contribution ID: **68**

Type: **not specified**

WANDA Welcome/NSAC

Monday, 26 February 2024 08:10 (25 minutes)

Presenter: HALLMAN, Tim (Department of Energy Nuclear Physics)

Session Classification: Session I

Contribution ID: **69**

Type: **not specified**

NA-114

Monday, 26 February 2024 11:10 (15 minutes)

Presenter: PELTZ, Jim (DOE)

Session Classification: Session I

Contribution ID: 70

Type: **not specified**

NA-113

Monday, 26 February 2024 10:55 (15 minutes)

Presenter: CALDWELL, Tod (NNSA)

Session Classification: Session I

Contribution ID: 71

Type: **not specified**

Nuclear data needs for the p-B11 fuel cycle

Monday, 26 February 2024 15:00 (15 minutes)

Presenter: STYRON, Jed (TAE)

Session Classification: Session II: FES: Fusion Neutronics

Contribution ID: 72

Type: **not specified**

Session Introduction

Tuesday, 27 February 2024 13:00 (20 minutes)

Presenters: ROMANO, Paul (Argonne National Laboratory); WILSON, Paul (University of Wisconsin Madison)

Session Classification: Session IV

Contribution ID: 73

Type: **not specified**

FES Perspective on Material Damage

Tuesday, 27 February 2024 13:20 (20 minutes)

Presenter: SHAW, Guinevere (DOE)

Session Classification: Session IV

Contribution ID: 74

Type: **not specified**

Nuclear data applications to integrated modelling of materials damage

Tuesday, 27 February 2024 13:40 (20 minutes)

Presenter: GILBERT, Mark (UKAEA)

Session Classification: Session IV

Contribution ID: 75

Type: **not specified**

Status of complete neutron-induced displacement damage cross section data

Tuesday, 27 February 2024 14:00 (20 minutes)

Presenters: KONOBEV, Alexandre; LEICHTLE, Dieter (Karlsruhe Institute of Technology)

Session Classification: Session IV

Contribution ID: 76

Type: **not specified**

Discussion

Tuesday, 27 February 2024 14:20 (20 minutes)

Session Classification: Session IV

Contribution ID: 77

Type: **not specified**

Fast Neutron Irradiation of High Temperature Superconducting Magnets

Tuesday, 27 February 2024 15:00 (20 minutes)

Presenters: Prof. BERNSTEIN, Lee (University of California - Berkeley/LBNL); BERNSTEIN, Lee

Session Classification: Session IV

Contribution ID: 78

Type: **not specified**

Radiation Damage to Electronics at the NIF

Tuesday, 27 February 2024 15:20 (20 minutes)

Presenter: KHATER, Hesham (LLNL)

Session Classification: Session IV

Contribution ID: 79

Type: **not specified**

Efforts to improve the accuracy of calculated displacement damage

Tuesday, 27 February 2024 15:40 (20 minutes)

Presenters: ROMANO, Paul (Argonne National Laboratory); CHEN, Shengli

Session Classification: Session IV

Contribution ID: **80**

Type: **not specified**

Discussion

Tuesday, 27 February 2024 16:00 (1 hour)

Session Classification: Session IV

Contribution ID: **81**

Type: **not specified**

Overview

Wednesday, 28 February 2024 13:00 (15 minutes)

Presenters: NEUDECKER, Denise (Los Alamos National Laboratory); GIBSON, Nathan (LANL)

Session Classification: Session VI

Contribution ID: **82**

Type: **not specified**

CI-35

Wednesday, 28 February 2024 13:15 (15 minutes)

Presenter: CISNEROS, Tommy (TerraPower)

Session Classification: Session VI

Contribution ID: **83**

Type: **not specified**

Forensics

Wednesday, 28 February 2024 13:30 (15 minutes)

Presenter: KEITH, Corey (LANL)

Session Classification: Session VI

Contribution ID: **84**

Type: **not specified**

BAND

Wednesday, 28 February 2024 13:45 (15 minutes)

Presenter: GODBEY, Kyle (FRIB)

Session Classification: Session VI

Contribution ID: 85

Type: **not specified**

Experimental UQ

Wednesday, 28 February 2024 14:00 (15 minutes)

Presenter: PRITYCHENKO, Boris (BNL)

Session Classification: Session VI

Contribution ID: **86**

Type: **not specified**

Medium-Fi

Wednesday, 28 February 2024 14:15 (15 minutes)

Presenter: KRAVVARIS, Konstantinos (LLNL)

Session Classification: Session VI

Contribution ID: 87

Type: **not specified**

Discussion

Wednesday, 28 February 2024 14:30 (30 minutes)

Session Classification: Session VI

Contribution ID: **88**

Type: **not specified**

User perspective

Wednesday, 28 February 2024 15:15 (15 minutes)

Presenter: CASPERSON, Robert (LLNL)

Session Classification: Session VI

Contribution ID: **89**

Type: **not specified**

QA/propagation

Wednesday, 28 February 2024 15:30 (15 minutes)

Presenter: FORBES, Jacob (UTK)

Session Classification: Session VI

Contribution ID: **90**

Type: **not specified**

QA for covariances

Wednesday, 28 February 2024 15:45 (15 minutes)

Presenter: MARSHALL, William (Oak Ridge National Laboratory)

Session Classification: Session VI

Contribution ID: **91**

Type: **not specified**

Integral Data Correlations

Wednesday, 28 February 2024 16:00 (15 minutes)

Presenter: PERCHER, Catherine (LLNL)

Session Classification: Session VI

Contribution ID: **92**

Type: **not specified**

Adjustment

Wednesday, 28 February 2024 16:15 (15 minutes)

Presenter: ABDEL-KHALIK, Hany (Purdue)

Session Classification: Session VI

Contribution ID: **93**

Type: **not specified**

Discussion

Wednesday, 28 February 2024 16:30 (30 minutes)

Session Classification: Session VI

Contribution ID: 94

Type: **not specified**

Recap of Nuclear Data for Fusion Energy Meeting

Monday, 26 February 2024 09:05 (15 minutes)

Presenter: BAHARAN, Rian (EOP/OSTP)

Session Classification: Session I

Contribution ID: 95

Type: **not specified**

Integral Experiments for Tritium Production

Tuesday, 27 February 2024 10:45 (15 minutes)

Presenter: PERCHER, Catherine (LLNL)

Session Classification: Session III

Contribution ID: 96

Type: **not specified**

Advanced Reactors and Accelerators: Alternative Pathways for Tritium Production

Tuesday, 27 February 2024 09:00 (15 minutes)

Presenter: AKINDELE, Tomi (LLNL)

Session Classification: Session III