Workshop for Applied Nuclear Data Activities (WANDA) 2025

Report of Contributions

Contribution ID: 2 · Type: **not specified**

Welcome

Monday, 10 February 2025 08:00 (5 minutes)

Presenters: Dr O'BRIEN, Ellen (Los Alamos National Laboratory); BROWN, Jesse (Oak Ridge National Laboratory)

Session Classification: Session I

Contribution ID: **3** Type: **not specified**

NDWG Welcome and Overview

Monday, 10 February 2025 08:05 (5 minutes)

Presenters: RESSLER, Jennifer Jo; BREDEWEG, Todd (LANL)

Session Classification: Session I

Contribution ID: 4   Type: **not specified**

Early Career Award: An Innovative (n,xn) Measurement Capability for Fusion Reactors, Fast Reactors, Radiochemical Diagnostics, and Astrophysics

Thursday, 13 February 2025 08:00 (7 minutes)

Presenter: KELLY, Keegan (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: 5   Type: **not specified**

Scoping Study for Nuclear Reaction Cross sectionson Short-Lived FP (NNSA)

Thursday, 13 February 2025 08:07 (14 minutes)

Presenter: RATKIEWICZ, Andrew (Lawrence Livermore National Laboratory)

Session Classification: Session VI

Contribution ID: 6   Type: **not specified**

Reaction Cross Sections, Secondary Gamma-Ray Yields, and Measured Neutron Spectra for Alpha-Induced Reactions on Light Nuclei

Thursday, 13 February 2025 08:21 (14 minutes)

Presenters: LEE, Hye Young (LANL); MCCONCHIE, Seth (ORNL)

Session Classification: Session VI

Contribution ID: **7** Type: **not specified**

Gamma Production Cross Sections for Active Neutron Interrogation with GENESIS

Thursday, 13 February 2025 08:35 (14 minutes)

Presenter: GOLDBLUM, Bethany (UCB)

Session Classification: Session VI

Contribution ID: **8**   Type: **not specified**

New measurements of spontaneous fission properties of Pu isotopes

Thursday, 13 February 2025 08:49 (14 minutes)

Presenter: DEVLIN, Matthew (LANL)

Session Classification: Session VI

Contribution ID: **9**   Type: **not specified**

Designing Nuclear-data Measurements that Resolve Discrepancies in Existing Data

Thursday, 13 February 2025 09:03 (14 minutes)

Presenter: NEUDECKER, Denise (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: **10**

Type: **not specified**

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

Thursday, 13 February 2025 09:17 (14 minutes)

Presenter: PARIS, Mark (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: **11** · Type: **not specified**

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

Thursday, 13 February 2025 09:31 (14 minutes)

Presenter: RASCO, Bertis (Oak Ridge National Laboratory)

Session Classification: Session VI

Contribution ID: **12**   Type: **not specified**

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

Thursday, 13 February 2025 09:45 (14 minutes)

Presenter: MCCUTCHAN, Libby (BNL/NNDC)

Session Classification: Session VI

Contribution ID: **13**   Type: **not specified**

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

Thursday, 13 February 2025 09:59 (14 minutes)

Presenter: PROCOP, Germina (ORNL)

Session Classification: Session VI

Contribution ID: **14**   Type: **not specified**

Benchmarking and validating cosmogenic activation models

Thursday, 13 February 2025 10:13 (14 minutes)

Presenters: HELLINGER, Aaron (PNNL);   SALDANHA, Richard (Pacific Northwest National Laboratory)

Session Classification: Session VI

Contribution ID: **15**   Type: **not specified**

Bayesian Framework for Mining of Evaluated Nuclear Mass Data

Thursday, 13 February 2025 10:43 (14 minutes)

Presenter: GODBEY, Kyle

Session Classification: Session VI

Contribution ID: **16** Type: **not specified**

Development of Benchmark Measurements for Capture Gamma Cascades

Thursday, 13 February 2025 10:57 (14 minutes)

Presenters: MARKER, Ian (RPI); DANON, Yaron (RPI)

Session Classification: Session VI

Contribution ID: **17**

Type: **not specified**

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

Thursday, 13 February 2025 11:11 (14 minutes)

Presenters: AYLLON UNZUETA, Mauricio (University of California Berkeley); PEPLOWSKI, Patrick (Johns Hopkins University Applied Physics Laboratory)

Session Classification: Session VI

Contribution ID: **18**   Type: **not specified**

Evaluation of Energy Dependent Fission Product Yields

Thursday, 13 February 2025 11:25 (7 minutes)

Presenter: KAWANO, Toshihiko (LANL)

Session Classification: Session VI

Contribution ID: **19**   Type: **not specified**

Fission products with NuCARIBU

Thursday, 13 February 2025 11:32 (7 minutes)

Presenter: SAVARD, Guy (ANL)

Session Classification: Session VI

Contribution ID: **20**   Type: **not specified**

Nuclear Structure Evaluators Traineeship at Lawrence Livermore National Laboratory

Thursday, 13 February 2025 11:39 (7 minutes)

Presenters: RAMIREZ, Anthony (LLNL);   MCCUTCHAN, Libby (BNL/NNDC)

Session Classification: Session VI

Contribution ID: **21**　　　　　　　　　　　　　　　　　Type: **not specified**

Quasi-continuum Nuclear Data Evaluator Training

Thursday, 13 February 2025 11:46 (7 minutes)

Presenter:　WIEDEKING, Mathis (iThemba LABS and University of the Witwatersrand)

Session Classification:　Session VI

Contribution ID: **22**

Type: **not specified**

ND Summer School

Thursday, 13 February 2025 11:53 (7 minutes)

Presenter: PIGNI, Marco (ORNL)

Session Classification: Session VI

Contribution ID: **23** Type: **not specified**

Nuclear Data and Deterrence Session Summary

Thursday, 13 February 2025 13:00 (20 minutes)

Presenters: COUTURE, Aaron (Los Alamos National Laboratory); RESSLER, Jennifer Jo; BRE-DEWEG, Todd (LANL)

Session Classification: Session Summaries

Contribution ID: **24**

Type: **not specified**

Fusion Session Summary

Thursday, 13 February 2025 13:20 (20 minutes)

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

Session Classification: Session Summaries

Contribution ID: 25 Type: **not specified**

HALEU and Novel Moderators Session Summary

Thursday, 13 February 2025 13:40 (20 minutes)

Presenters: ORTENSI, Javier (Idaho National Laboratory); CUTLER, Theresa (Los Alamos National Laboratory)

Session Classification: Session Summaries

Contribution ID: **26**   Type: **not specified**

Data Preservation and Data Workflows Session Summary

Thursday, 13 February 2025 14:00 (40 minutes)

Presenters: DASKALAKIS, Adam (Naval Nuclear Laboratory); BROWN, David (BNL/NNDC)

Session Classification: Session Summaries

Contribution ID: **27**   Type: **not specified**

Closeout

Thursday, 13 February 2025 14:40 (20 minutes)

Presenters: Dr O'BRIEN, Ellen (Los Alamos National Laboratory);   BROWN, Jesse (Oak Ridge National Laboratory)

Session Classification: Session Summaries

Contribution ID: **32** Type: **not specified**

WANDA

Monday, 10 February 2025 08:10 (20 minutes)

Presenters: HORTON, Linda (Department of Energy); STEPHENSON, Sharon (Department of Energy)

Session Classification: Session I

Contribution ID: **33**   Type: **not specified**

NDIAWG

Monday, 10 February 2025 08:30 (20 minutes)

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

Session Classification: Session I

Contribution ID: **34** Type: **not specified**

DOE-CDO

Monday, 10 February 2025 08:50 (20 minutes)

Presenter: KING, Robert (Department of Energy)

Session Classification: Session I

Contribution ID: **35** Type: **not specified**

NA-22

Monday, 10 February 2025 09:10 (20 minutes)

Presenter: ANTONIO, Nick (NNSA)

Session Classification: Session I

Contribution ID: **36**   Type: **not specified**

DOE-IP

Monday, 10 February 2025 09:30 (15 minutes)

Presenter: BALKIN, Ethan (DOE)

Session Classification: Session I

Contribution ID: **39**   Type: **not specified**

Bridging gaps in Nuclear data needs for optimized deployment of KP-FHR reactors.

Tuesday, 11 February 2025 14:00 (20 minutes)

Presenters: CAMPBELL, Chris (Kairos);   SATVAT, Nader (Kairos)

Session Classification: Session IV

Contribution ID: **40**   Type: **not specified**

Westinghouse Nuclear Data Needs for Advanced Reactor Products

Tuesday, 11 February 2025 14:20 (20 minutes)

Presenter: MEANS, Keith (Westinghouse)

Session Classification: Session IV

Contribution ID: **43**   Type: **not specified**

Nuclear Criticality Safety Program Support for HALEU and Other DOE Programs

Tuesday, 11 February 2025 14:50 (15 minutes)

Presenter: BOWEN, Douglas (Oak Ridge National Laboratory)

Session Classification: Session IV

Contribution ID: 44   Type: **not specified**

The DEIMOS Testbed for HALEU Reactor Demonstrations and HALEU Fuel Procurement

Tuesday, 11 February 2025 15:05 (15 minutes)

Presenter: THOMPSON, Nicholas (Los Alamos National Laboratory)

Session Classification: Session IV

Contribution ID: 45

Type: **not specified**

Applied Nuclear Data Supporting HALEU Fuel Transport: DNCSH Critical Benchmark Experiments at SPRF/CX

Tuesday, 11 February 2025 15:20 (15 minutes)

Presenter: PULIO, Ramon (Sandia National Laboratories)

Session Classification: Session IV

Contribution ID: 46   Type: **not specified**

Bridging Thermal Scattering Law Data Gaps for Novel Moderators in Advanced Reactors

Tuesday, 11 February 2025 15:45 (15 minutes)

Presenter: AL-QASIR, Iyad (Oak Ridge National Laboratory)

Session Classification: Session IV

Contribution ID: 47

Type: **not specified**

Update on ENDF/B-VIII.1 TSLs for Moderator and Fuel Materials

Tuesday, 11 February 2025 16:00 (15 minutes)

Presenter: ZERKLE, Michael (Naval Nuclear Laboratory)

Session Classification: Session IV

Contribution ID: **48**   Type: **not specified**

Data Needs for Nuclear Material Accounting and Safeguards in the HALEU Fuel Cycle

Tuesday, 11 February 2025 16:25 (15 minutes)

Presenter: CROCE, Mark (Los Alamos National Laboratory)

Session Classification: Session IV

Contribution ID: 49   Type: **not specified**

Multi-Physics Code Prediction of Nuclear Material Quantities for Advanced Reactor Safeguards

Tuesday, 11 February 2025 16:40 (15 minutes)

Presenter: HOGUE, Karen (Oak Ridge National Laboratory)

Session Classification: Session IV

Contribution ID: **52** Type: **not specified**

Introduction

Tuesday, 11 February 2025 13:30 (10 minutes)

Presenters: ORTENSI, Javier (Idaho National Laboratory); CUTLER, Theresa (Los Alamos National Laboratory)

Session Classification: Session IV

Contribution ID: 53   Type: **not specified**

HALEU Transportation and Fuel Cycle Licensing and the DNCSH Project

Tuesday, 11 February 2025 13:40 (20 minutes)

Presenters: BARTO, Andrew (Nuclear Regulatory Commission);   ALGAMA, Don (Department of Energy Office of Science, Nuclear Energy)

Session Classification: Session IV

Contribution ID: **54**
Type: **not specified**

Introduction

Monday, 10 February 2025 13:00 (10 minutes)

Presenter: RESSLER, Jennifer Jo

Session Classification: Session II

Contribution ID: **55** Type: **not specified**

Determining Needs

Monday, 10 February 2025 13:10 (20 minutes)

Presenters: DREYFUSS, Ali (Lawrence Livermore National Laboratory); CASPERSON, Robert (LLNL)

Session Classification: Session II

Contribution ID: **56** 　　　　　　　　　　　　　　　　Type: **not specified**

Defining Experiments

Monday, 10 February 2025 13:30 (20 minutes)

Presenter: NEUDECKER, Denise (Los Alamos National Laboratory)

Session Classification: Session II

Contribution ID: **57** · Type: **not specified**

Opportunities for AI/ML

Monday, 10 February 2025 13:50 (20 minutes)

Presenter: VANDER WIEL, Scott (Los Alamos National Laboratory)

Session Classification: Session II

Contribution ID: **58**   Type: **not specified**

Capabilities with HPC, GPU, and QIS

Monday, 10 February 2025 14:10 (20 minutes)

Presenter: KRAVVARIS, Konstantinos (Lawrence Livermore National Laboratory)

Session Classification: Session II

Contribution ID: **60**

Type: **not specified**

Nuclear Data Experiments

Monday, 10 February 2025 15:15 (20 minutes)

Presenter: COUTURE, Aaron (Los Alamos National Laboratory)

Session Classification: Session II

Contribution ID: **61** Type: **not specified**

High Energy Flash Radiography and Nuclear Data

Monday, 10 February 2025 15:35 (20 minutes)

Presenter: AUFDERHEIDE, Maurice (Lawrence Livermore National Laboratory)

Session Classification: Session II

Contribution ID: **62**   Type: **not specified**

Detection Capabilities for Nuclear Data

Monday, 10 February 2025 15:55 (20 minutes)

Presenter: KELLY, Keegan (Los Alamos National Laboratory)

Session Classification: Session II

Contribution ID: **63**   Type: **not specified**

Integrated Experiment Diagnostics

Monday, 10 February 2025 16:15 (20 minutes)

Presenter: LABB, Samantha (Lawrence Livermore National Laboratory)

Session Classification: Session II

Contribution ID: **65** Type: **not specified**

Introduction

Wednesday, 12 February 2025 08:00 (15 minutes)

Presenters: DASKALAKIS, Adam (Naval Nuclear Laboratory); BROWN, David (BNL/NNDC)

Session Classification: Session V

Contribution ID: **66**   Type: **not specified**

Keynote

Wednesday, 12 February 2025 08:30 (20 minutes)

Presenter: COOKE, Michael (DOE)

Session Classification: Session V

Contribution ID: **67**   Type: **not specified**

Digitising historical atmospheric electricity data with citizen science

Wednesday, 12 February 2025 08:50 (15 minutes)

Presenter: NICOLL, Keri (University of Reading (UK))

Session Classification: Session V

Contribution ID: **68** Type: **not specified**

NNDC and other PuRe Data Resources

Wednesday, 12 February 2025 09:05 (15 minutes)

Presenter: BROWN, David (BNL/NNDC)

Session Classification: Session V

Contribution ID: **69**   Type: **not specified**

Discussion

Wednesday, 12 February 2025 09:20 (30 minutes)

Session Classification: Session V

Contribution ID: **70**

Type: **not specified**

Introduction

Wednesday, 12 February 2025 10:10 (10 minutes)

Session Classification: Session V

Contribution ID: **71**

Type: **not specified**

Experimental nuclear data archaeology

Wednesday, 12 February 2025 10:20 (15 minutes)

Presenters: OTUKA, Naohiko (IAEA); DIMITRIOU, Vivian (IAEA)

Session Classification: Session V

Contribution ID: **72**   Type: **not specified**

Legacy data for an automatically readable, comprehensive, and curated experimental reaction database

Wednesday, 12 February 2025 10:35 (15 minutes)

Presenter: PRITYCHENKO, Boris (BNL)

Session Classification: Session V

Contribution ID: **73** Type: **not specified**

Talk 3

Wednesday, 12 February 2025 10:50 (15 minutes)

Presenter: NEUDECKER, Denise (Los Alamos National Laboratory)

Session Classification: Session V

Contribution ID: **74** Type: **not specified**

Discussion

Wednesday, 12 February 2025 11:20 (40 minutes)

Session Classification: Session V

Contribution ID: **75**   Type: **not specified**

A Framework for a Modern USNDP

Wednesday, 12 February 2025 13:05 (20 minutes)

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

Session Classification: Session V

Contribution ID: **76**

Type: **not specified**

Processing trails: beyond n-transport only

Wednesday, 12 February 2025 13:25 (15 minutes)

Presenter: SUBLET, Jean-Christophe (UKEA)

Session Classification: Session V

Contribution ID: **77**　　　　　　　　　　　　　　　　　　　Type: **not specified**

Talk 2

Wednesday, 12 February 2025 13:40 (15 minutes)

Presenter:　FLEMING, Michael (OECD Nuclear Energy Agency)

Session Classification:　Session V

Contribution ID: **79**   Type: **not specified**

Updating to a GNDS-based nuclear data workflow

Wednesday, 12 February 2025 13:55 (15 minutes)

Presenter: Dr MATTOON, Caleb (Lawrence Livermore National Laboratory)

Session Classification: Session V

Contribution ID: **80**   Type: **not specified**

Discussion

Wednesday, 12 February 2025 14:10 (40 minutes)

Session Classification: Session V

Contribution ID: **81**   Type: **not specified**

Knowledge Management for Multi-Generational Projects

Wednesday, 12 February 2025 15:15 (20 minutes)

Presenter: BELL, Stephen

Session Classification: Session V

Contribution ID: **82**

Type: **not specified**

Virtual VAX

Wednesday, 12 February 2025 15:50 (15 minutes)

Presenter: BREDEWEG, Todd (LANL)

Session Classification: Session V

Contribution ID: **83**   Type: **not specified**

Case study in data and knowledge preservation: experiences from a user with ALEPH archived data

Wednesday, 12 February 2025 16:05 (15 minutes)

Presenter: CHEN, Yi (Vanderbil University)

Session Classification: Session V

Contribution ID: **84** Type: **not specified**

Towards a Standard Experimental Nuclear Data Format (SENDF)

Wednesday, 12 February 2025 15:35 (15 minutes)

Presenter: DASKALAKIS, Adam (Naval Nuclear Laboratory)

Session Classification: Session V

Contribution ID: **85** · Type: **not specified**

Discussion

Wednesday, 12 February 2025 16:20 (40 minutes)

Session Classification: Session V

Contribution ID: 86   Type: **not specified**

DOE-NE

Monday, 10 February 2025 10:15 (15 minutes)

Presenter: ALGAMA, Don (Department of Energy Office of Science, Nuclear Energy)

Session Classification: Session I

Contribution ID: 87 Type: **not specified**

NA-113

Monday, 10 February 2025 10:30 (15 minutes)

Presenter: CALDWELL, Tod (NNSA)

Session Classification: Session I

Contribution ID: **88** Type: **not specified**

NA-114

Monday, 10 February 2025 10:45 (15 minutes)

Presenter: PELTZ, Jim (NNSA)

Session Classification: Session I

Contribution ID: **89** Type: **not specified**

NCSP

Monday, 10 February 2025 11:00 (15 minutes)

Presenter: BOWEN, Douglas (Oak Ridge National Laboratory)

Session Classification: Session I

Contribution ID: **90**   Type: **not specified**

NRC

Monday, 10 February 2025 11:15 (15 minutes)

Presenter: KYRIAZIDIS, Lucas (NRC)

Session Classification: Session I

Contribution ID: **91** Type: **not specified**

DTRA

Monday, 10 February 2025 11:30 (15 minutes)

Presenter: INGRAHAM, Joanna (Defense Threat Reduction Agency)

Session Classification: Session I

Contribution ID: **92** Type: **not specified**

DOE-FES

Monday, 10 February 2025 09:45 (15 minutes)

Session Classification: Session I

Contribution ID: **93**   Type: **not specified**

SANPC Workshop Summary

Wednesday, 12 February 2025 08:15 (15 minutes)

Presenter: GODBEY, Kyle

Session Classification: Session V

Contribution ID: **94**

Type: **not specified**

Talk 4

Wednesday, 12 February 2025 11:05 (15 minutes)

Presenter: PERCHER, Catherine (LLNL)

Session Classification: Session V

Contribution ID: **95** Type: **not specified**

Introduction

Wednesday, 12 February 2025 13:00 (5 minutes)

Session Classification: Session V

Contribution ID: **96**

Type: **not specified**

Introduction

Wednesday, 12 February 2025 15:10 (5 minutes)

Session Classification: Session V

Contribution ID: **97**   Type: **not specified**

Summary of Fusion Energy Science sessions at WANDA-24

Tuesday, 11 February 2025 08:00 (25 minutes)

Presenter: LOUGHLIN, Michael (ORNL)

Session Classification: Session III

Contribution ID: **98**
Type: **not specified**

An Assessment of Existing Nuclear Data and Proposals for Future Experiments

Tuesday, 11 February 2025 08:25 (25 minutes)

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

Session Classification: Session III

Contribution ID: **99**   Type: **not specified**

Fusion technologies data needs: the missing links

Tuesday, 11 February 2025 08:50 (25 minutes)

Presenter: SUBLET, Jean-Christophe (UKEA)

Session Classification: Session III

Contribution ID: **100**   Type: **not specified**

Fusion-Relevant Changes in the ENDF/B-VIII.1 Library

Tuesday, 11 February 2025 09:15 (25 minutes)

Presenter: ROMANO, Paul (Argonne National Laboratory)

Session Classification: Session III

Contribution ID: **101**

Type: **not specified**

Review of Challenges to Achieving Nuclear Data Sensitivity and Uncertainty Analysis for Fusion

Tuesday, 11 February 2025 10:00 (25 minutes)

Presenter: EBIWONJUMI, Bamidele

Session Classification: Session III

Contribution ID: **103**   Type: **not specified**

Nuclear Reactions with a Radioactive Ion Beam

Tuesday, 11 February 2025 10:25 (25 minutes)

Presenter: FORREST, Chad (University of Rochester)

Session Classification: Session III

Contribution ID: **104**   Type: **not specified**

Disucssion

Tuesday, 11 February 2025 10:50 (1h 10m)

Session Classification: Session III

Contribution ID: **106**   Type: **not specified**

Solving the Mn Puzzle

Thursday, 13 February 2025 12:00 (7 minutes)

Presenter: JANDEL, Marian (University of Massachusetts, Lowell)

Session Classification: Session VI