

Workshop for Applied Nuclear Data Activities (WANDA 2023)

Report of Contributions

Contribution ID: 1

Type: **not specified**

Session Introduction

Wednesday, 1 March 2023 08:00 (10 minutes)

Presenters: Dr VOYLES, Andrew (Lawrence Berkeley Laboratory); Dr VERMEULEN, Etienne (Los Alamos National Laboratory)

Session Classification: Session IV

Contribution ID: 2

Type: **not specified**

The TREND Effort & Data Needs for BNL

Wednesday, 1 March 2023 08:10 (20 minutes)

Presenter: Dr MEDVEDEV, Dimitri (Brookhaven National Laboratory)

Session Classification: Session IV

Contribution ID: 3

Type: **not specified**

An ATLAS/GammaSphere Campaign to Measure Fusion-Evaporation Residue Distributions and Excitation Functions

Wednesday, 1 March 2023 08:30 (15 minutes)

Presenter: Dr RENNE, Amy (Argonne National Laboratory)

Session Classification: Session IV

Contribution ID: 4

Type: **not specified**

An instrument for experimentally measuring Auger-Meitner emitters' electron multiplicities and energy spectra

Wednesday, 1 March 2023 08:45 (15 minutes)

Presenter: Dr STOLLENWERK, Patrick (Argonne National Laboratory)

Session Classification: Session IV

Contribution ID: 5

Type: **not specified**

Data Needs & Capabilities at the LANL Isotope Production Facility

Wednesday, 1 March 2023 09:00 (20 minutes)

Presenter: Dr MORRELL, Jonathan (Los Alamos National Laboratory)

Session Classification: Session IV

Contribution ID: 6

Type: **not specified**

Experimental Capabilities at the LBNL 88-Inch Cyclotron

Wednesday, 1 March 2023 10:00 (20 minutes)

Presenter: Dr BERNSTEIN, Lee (Lawrence Berkeley Laboratory/UC Berkeley)

Session Classification: Session IV

Contribution ID: 7

Type: **not specified**

Data Needs & Capabilities for Auger Electron Emitters (Virtual)

Wednesday, 1 March 2023 10:20 (20 minutes)

Presenter: Dr HOWELL, Roger (Rutgers)

Session Classification: Session IV

Contribution ID: 9

Type: **not specified**

Data Needs & Capabilities for UAB: Proton induced reactions for medical isotope production

Wednesday, 1 March 2023 10:40 (20 minutes)

Presenter: Dr LAPI, Suzanne (UAB)

Session Classification: Session IV

Contribution ID: **10**

Type: **not specified**

Cross Section Measurements for ^{149}Tb Production

Wednesday, 1 March 2023 11:00 (20 minutes)

Presenter: Dr MCINTOSH, Alan (Texas A&M University)

Session Classification: Session IV

Contribution ID: 11

Type: **not specified**

Open Floor Discussion

Wednesday, 1 March 2023 11:20 (40 minutes)

Session Classification: Session IV

Contribution ID: 12

Type: **not specified**

Overview of Nuclear Data Processing

Wednesday, 1 March 2023 13:00 (15 minutes)

Presenter: Dr GIBSON, Nathan (Los Alamos National Laboratory)

Session Classification: Session V

Contribution ID: 13

Type: **not specified**

NJOY

Wednesday, 1 March 2023 13:15 (5 minutes)

Presenter: Dr HAECK, Wim (Los Alamos National Laboratory)

Session Classification: Session V

Contribution ID: 14

Type: **not specified**

FUDGE

Wednesday, 1 March 2023 13:20 (5 minutes)

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

Session Classification: Session V

Contribution ID: 15

Type: **not specified**

AMPX

Wednesday, 1 March 2023 13:25 (5 minutes)

Presenter: Dr BROWN, Jesse (Oak Ridge National Laboratory)

Session Classification: Session V

Contribution ID: **16**

Type: **not specified**

NDEX

Wednesday, 1 March 2023 13:30 (5 minutes)

Presenter: Dr THOMPSON, Jason (US Naval Nuclear Propulsion Program)

Session Classification: Session V

Contribution ID: 17

Type: **not specified**

Advanced Computing Architectures

Wednesday, 1 March 2023 13:35 (15 minutes)

Presenter: Dr ROMANO, Paul (Argonne National Laboratory)

Session Classification: Session V

Contribution ID: **18**

Type: **not specified**

Depletion Data

Wednesday, 1 March 2023 13:50 (15 minutes)

Presenter: Dr MCDONNELL, Jordan (Oak Ridge National Laboratory)

Session Classification: Session V

Contribution ID: **19**

Type: **not specified**

Energy Deposition

Wednesday, 1 March 2023 14:05 (15 minutes)

Presenter: Dr THOMPSON, Jason (US Naval Nuclear Propulsion Program)

Session Classification: Session V

Contribution ID: 20

Type: **not specified**

Covariances and Uncertainty Propagation

Wednesday, 1 March 2023 14:20 (15 minutes)

Presenter: Dr WENDT, Kyle (Lawrence Livermore National Laboratory)

Session Classification: Session V

Contribution ID: 21

Type: **not specified**

Discussion

Wednesday, 1 March 2023 14:35 (20 minutes)

Presenter: Dr GIBSON, Nathan (Los Alamos National Laboratory)

Session Classification: Session V

Contribution ID: 23

Type: **not specified**

Welcome/Introduction

Tuesday, 28 February 2023 08:00 (15 minutes)

Presenters: Dr HARKE, Jason (Lawrence Livermore National Laboratory); Dr SCHUNERT, Sebastian (Idaho National Laboratory)

Session Classification: Session II

Contribution ID: 24

Type: **not specified**

Overview of LWR and Advanced Reactor Fuel Forms

Tuesday, 28 February 2023 08:15 (30 minutes)

Presenter: Dr SCHUNERT, Sebastian (Idaho National Laboratory)

Session Classification: Session II

Contribution ID: 25

Type: **not specified**

Importance and Needs for Fission Product Yields in Neutronics and Regulatory Analysis for Nuclear Reactors

Tuesday, 28 February 2023 08:45 (15 minutes)

Presenter: Dr BROWN, Jesse (Oak Ridge National Laboratory)

Session Classification: Session II

Contribution ID: 26

Type: **not specified**

Importance and Needs for Fission Product Yields in Molten Salt Reactor Chemistry and Corrosion Modeling

Tuesday, 28 February 2023 09:00 (15 minutes)

Presenter: Dr TANO, Mauricio (Idaho National Laboratory)

Session Classification: Session II

Contribution ID: 27

Type: **not specified**

Importance and Needs for FPY for fluid properties in MSRs (Virtual)

Tuesday, 28 February 2023 09:30 (15 minutes)

Presenter: Dr BESMANN, Theodore (Univ. South Carolina)

Session Classification: Session II

Contribution ID: 28

Type: **not specified**

How can integral benchmarks benefit fission product data via data calibration

Tuesday, 28 February 2023 09:45 (15 minutes)

Presenter: Dr SIEFMAN, Daniel (Lawrence Livermore National Laboratory)

Session Classification: Session II

Contribution ID: 30

Type: **not specified**

Covariance requirements in SCALE and effects for NRC

Tuesday, 28 February 2023 10:20 (15 minutes)

Presenter: Dr WIESELQUIST, Will (Oak Ridge National Laboratory)

Session Classification: Session II

Contribution ID: 31

Type: **not specified**

IAEA activities on Fission Yield and expected outcomes (Virtual)

Tuesday, 28 February 2023 10:35 (25 minutes)

Presenter: Dr CAPOTE, Roberto (IAEA)

Session Classification: Session II

Contribution ID: 33

Type: **not specified**

Discussion

Tuesday, 28 February 2023 11:00 (1 hour)

Session Classification: Session II

Contribution ID: 34

Type: **not specified**

Importance and Needs for Fission Product Yields in Nuclear Reactor Severe Accident and Mechanistic Source Term Modeling

Tuesday, 28 February 2023 09:15 (15 minutes)

Presenter: Dr LUXAT, David (Sandia National Laboratory)

Session Classification: Session II

Contribution ID: 35

Type: **not specified**

FPY needs and requirements for librairies

Tuesday, 28 February 2023 13:00 (15 minutes)

Presenter: Dr SONZOGNI, Alejandro (National Nuclear Data Center (BNL))

Session Classification: Session III

Contribution ID: 36

Type: **not specified**

LANL FPY theory and evaluation

Tuesday, 28 February 2023 13:15 (15 minutes)

Presenter: Dr LOVELL, Amy (Los Alamos National Laboratory)

Session Classification: Session III

Contribution ID: 37

Type: **not specified**

Microscopic fission models: State of the art and future opportunities

Tuesday, 28 February 2023 13:30 (15 minutes)

Presenter: Dr SCHUNCK, Nichlas (Lawrence Livermore National Laboratory)

Session Classification: Session III

Contribution ID: **38**

Type: **not specified**

FREYA and Fission Yields

Tuesday, 28 February 2023 13:45 (15 minutes)

Presenter: Dr VOGT, Ramona (Lawrence Livermore National Laboratory)

Session Classification: Session III

Contribution ID: 39

Type: **not specified**

FPY measurements at TUNL

Tuesday, 28 February 2023 14:00 (15 minutes)

Presenter: Dr GOODEN, Matthew (Los Alamos National Laboratory)

Session Classification: Session III

Contribution ID: 40

Type: **not specified**

TUNL - photo fission

Tuesday, 28 February 2023 14:15 (15 minutes)

Presenter: Dr HOWELL, Calvin (Duke University)

Session Classification: Session III

Contribution ID: 41

Type: **not specified**

FPY Beta-gamma branching ratios

Tuesday, 28 February 2023 14:30 (15 minutes)

Presenter: Dr KOLOS, Kay (Lawrence Livermore National Laboratory)

Session Classification: Session III

Contribution ID: 44

Type: **not specified**

Uranium gamma data needs for microcalorimetry at the IAEA NML

Tuesday, 28 February 2023 15:00 (15 minutes)

Presenter: KIM, Geonbo (LLNL)

Session Classification: Session III

Contribution ID: 45

Type: **not specified**

SLFPY measurements at NCERC

Tuesday, 28 February 2023 15:15 (15 minutes)

Presenter: Dr GARCIA DUARTE, Jeremias (LLNL)

Session Classification: Session III

Contribution ID: 46

Type: **not specified**

Applications of Fission Product Yields & Other Nuclear Data at TerraPower (Virtual)

Tuesday, 28 February 2023 15:30 (15 minutes)

Presenter: CISNEROS, Tommy (TerraPower)

Session Classification: Session III

Contribution ID: 47

Type: **not specified**

Discussion

Tuesday, 28 February 2023 16:00 (1 hour)

Session Classification: Session III

Contribution ID: 48

Type: **not specified**

Overview of US Data Preservation

Wednesday, 1 March 2023 15:15 (15 minutes)

Presenter: Dr WU, Jin (BNL)

Session Classification: Session V

Contribution ID: 49

Type: **not specified**

openNP (Virtual)

Wednesday, 1 March 2023 16:10 (20 minutes)

Presenter: Dr MATTA, Adrien (Ganil)

Session Classification: Session V

Contribution ID: 51

Type: **not specified**

Case study from LANL facility

Wednesday, 1 March 2023 16:30 (20 minutes)

Presenter: Dr DEVLIN, Matt (LANL)

Session Classification: Session V

Contribution ID: 52

Type: **not specified**

Discussion

Wednesday, 1 March 2023 16:50 (40 minutes)

Presenter: Dr MCCUTCHAN, Libby (BNL)

Session Classification: Session V

Contribution ID: 53

Type: **not specified**

The case for an evaluated database of statistical nuclear quantities

Monday, 27 February 2023 13:00 (30 minutes)

Presenter: Dr BERNSTEIN, Lee (LBL)

Session Classification: Session I

Contribution ID: 55

Type: **not specified**

The case for some TLC

Monday, 27 February 2023 13:30 (12 minutes)

Presenter: Dr ESCHER, Jutta (LLNL)

Session Classification: Session I

Contribution ID: 56

Type: **not specified**

Nuclear level densities and gamma-strength functions in astrophysics

Monday, 27 February 2023 13:42 (12 minutes)

Presenter: Dr MUMPOWER, Matthew (Los Alamos National Laboratory)

Session Classification: Session I

Contribution ID: 57

Type: **not specified**

Overview of theoretical efforts on microscopic nuclear level densities

Monday, 27 February 2023 13:54 (12 minutes)

Presenter: Dr KARAMPAGIA, Sofia (Grand Valley State University)

Session Classification: Session I

Contribution ID: 58

Type: **not specified**

Using neutron resonance parameters from advanced experiments and analysis to improve NLDs and gSFs

Monday, 27 February 2023 14:06 (12 minutes)

Presenter: Dr KOEHLER, Paul (LANL)

Session Classification: Session I

Contribution ID: 59

Type: **not specified**

Discussion

Monday, 27 February 2023 14:18 (42 minutes)

Session Classification: Session I

Contribution ID: **60**

Type: **not specified**

NLD and gSF in rare isotopes with the beta-Oslo method

Monday, 27 February 2023 15:20 (12 minutes)

Presenter: Dr LIDDICK, Sean (FRIB/MSU)

Session Classification: Session I

Contribution ID: 62

Type: **not specified**

Data needs for inline cascades

Monday, 27 February 2023 15:32 (12 minutes)

Presenters: Dr LEWIS, Amanda (Naval Nuclear Laboratory); Dr LEWIS, Amanda (Naval Nuclear Laboratory)

Session Classification: Session I

Contribution ID: 63

Type: **not specified**

Experimental Constraints for Statistical Quantities for Nuclear Astrophysics

Monday, 27 February 2023 15:56 (12 minutes)

Presenter: Dr RICHARD, Andrea (Lawrence Livermore National Laboratory, Facility for Rare Isotope Beams)

Session Classification: Session I

Contribution ID: 64

Type: **not specified**

Building a predictive theory of photoabsorption/deexcitation: Needs and Opportunities

Monday, 27 February 2023 16:08 (12 minutes)

Presenter: Dr SCHUNCK, Nicolas (LLNL)

Session Classification: Session I

Contribution ID: 67

Type: **not specified**

Data on level densities from evaporation sepectra experiments

Monday, 27 February 2023 15:44 (12 minutes)

Presenter: Dr VOINOV, Alexander (Ohio University)

Session Classification: Session I

Contribution ID: **68**

Type: **not specified**

Discussion

Monday, 27 February 2023 16:20 (40 minutes)

Session Classification: Session I

Contribution ID: 69

Type: **not specified**

WANDA Introduction & Agenda

Monday, 27 February 2023 08:00 (5 minutes)

Presenters: Dr LOVELL, Amy (Los Alamos National Laboratory); Dr PIERSON, Bruce (PNNL, Battelle)

Session Classification: Plenary

Contribution ID: 70

Type: **not specified**

WANDA Welcome/NSAC

Monday, 27 February 2023 08:05 (25 minutes)

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

Session Classification: Plenary

Contribution ID: 71

Type: **not specified**

NDIAWG

Monday, 27 February 2023 08:30 (15 minutes)

Presenter: Mr JANKOWSKI, Keith (Department of Energy Nuclear Physics)

Session Classification: Plenary

Contribution ID: 72

Type: **not specified**

NDWG Update

Monday, 27 February 2023 08:45 (15 minutes)

Presenter: Dr ROMANO, Cathy (Aero)

Session Classification: Plenary

Contribution ID: 73

Type: **not specified**

NDWG Newsletter

Monday, 27 February 2023 09:00 (5 minutes)

Presenter: Dr LYONS, Stephanie (Pacific Northwest National Laboratory)

Session Classification: Plenary

Contribution ID: 76

Type: **not specified**

DOE IP

Monday, 27 February 2023 09:20 (15 minutes)

Presenter: Dr FREYNBERGER, Arne (Department of Energy Isotopes Program)

Session Classification: Plenary

Contribution ID: 77

Type: **not specified**

Nuclear Data DNN NNSA

Monday, 27 February 2023 09:35 (25 minutes)

Presenter: MATTERS, Lt. Col. David (National Nuclear Security Administration)

Session Classification: Plenary

Contribution ID: 78

Type: **not specified**

DTRA

Monday, 27 February 2023 10:10 (20 minutes)

Presenter: Dr INGRAHAM, Joanna (Defense Threat Reduction Agency)

Session Classification: Plenary

Contribution ID: 79

Type: **not specified**

Nuclear Data Pipeline

Monday, 27 February 2023 11:55 (15 minutes)

Presenter: Dr BROWN, David (Brookhaven National Laboratory)

Session Classification: Plenary

Contribution ID: **80**

Type: **not specified**

Integral Fission Product Yields

Thursday, 2 March 2023 09:08 (17 minutes)

Presenter: Dr BREDEWEG, Todd (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: **81**

Type: **not specified**

Independent Fission Product Yields from 0.5 to 20 MeV

Thursday, 2 March 2023 08:00 (17 minutes)

Presenter: Dr WINKELBAUER, Jack (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: **82**

Type: **not specified**

Energy dependent fission product yields

Thursday, 2 March 2023 08:34 (17 minutes)

Presenter: Dr GOODEN, Matthew (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: 83

Type: **not specified**

Fission product yield and gamma production evaluation

Thursday, 2 March 2023 08:51 (17 minutes)

Presenter: Dr KAWANO, Toshihiko (LANL)

Session Classification: Session VI

Contribution ID: 84

Type: **not specified**

Beta-strength function, reactor decay heat, and anti-neutrino properties from total absorption spectroscopy of fission fragments

Thursday, 2 March 2023 09:25 (17 minutes)

Presenter: Dr RYKACZEWSKI, Krzysztof (ORNL)

Session Classification: Session VI

Contribution ID: 85

Type: **not specified**

Improving the double-differential $^{238}\text{U}(n,n'\gamma)$ cross section using neutron-gamma coincidences

Thursday, 2 March 2023 09:42 (17 minutes)

Presenter: Dr BERNSTEIN, Lee

Session Classification: Session VI

Contribution ID: 86

Type: **not specified**

Neutron Scattering Cross Sections: (n,n') , $(n,n'g)$, and (n,g) Measurements

Thursday, 2 March 2023 10:20 (17 minutes)

Presenter: Prof. VANHOY, Jeff (US Naval Academy)

Session Classification: Session VI

Contribution ID: 87

Type: **not specified**

Modernization and Optimization of the Evaluated Nuclear Structure Data File

Thursday, 2 March 2023 10:37 (17 minutes)

Presenter: Dr MCCUTCHAN, Libby (BNL/NNDC)

Session Classification: Session VI

Contribution ID: **88**

Type: **not specified**

Gamma Rays Induced by Neutrons

Thursday, 2 March 2023 10:54 (7 minutes)

Presenter: Dr BROWN, David (BNL/NNDC)

Session Classification: Session VI

Contribution ID: 89

Type: **not specified**

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

Thursday, 2 March 2023 11:01 (7 minutes)

Presenter: Dr DEVLIN, Matthew (LANL)

Session Classification: Session VI

Contribution ID: 90

Type: **not specified**

β -energy spectral shapes in fission products affecting reactor decay heat and anti-neutrino flux

Thursday, 2 March 2023 11:08 (7 minutes)

Presenter: Dr RASCO, Bertis (Oak Ridge National Laboratory)

Session Classification: Session VI

Contribution ID: 91

Type: **not specified**

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

Thursday, 2 March 2023 11:15 (7 minutes)

Presenter: Dr HOWELL, Calvin (Duke University and TUNL)

Session Classification: Session VI

Contribution ID: 92

Type: **not specified**

Designing Nuclear-data Measurements that Resolve Discrepancies in Existing Data

Thursday, 2 March 2023 11:22 (7 minutes)

Presenter: Dr BROWN, David (BNL/NNDC)

Session Classification: Session VI

Contribution ID: 93

Type: **not specified**

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

Thursday, 2 March 2023 11:29 (7 minutes)

Presenter: Dr LOVELL, Amy (Los Alamos National Laboratory)

Session Classification: Session VI

Contribution ID: 94

Type: **not specified**

Solving the 56Mn puzzle

Thursday, 2 March 2023 11:36 (7 minutes)

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

Session Classification: Session VI

Contribution ID: 95

Type: **not specified**

UQ Workshop brief

Monday, 27 February 2023 11:45 (10 minutes)

Presenter: Dr RESSLER, Jo (LLNL)

Session Classification: Plenary

Contribution ID: 97

Type: **not specified**

Nuclear data needs for Plutonium accounting using microcalorimeters

Tuesday, 28 February 2023 15:45 (15 minutes)

Presenter: Dr BECKER, Dan (University of Colorado)

Session Classification: Session III

Contribution ID: **98**

Type: **not specified**

DOE Nuclear Energy

Monday, 27 February 2023 11:15 (15 minutes)

Presenter: Dr FANNING, Thomas (DOE - NE)

Session Classification: Plenary

Contribution ID: 99

Type: **not specified**

Measurements of Independent Fission Product Yields

Thursday, 2 March 2023 08:17 (17 minutes)

Presenter: Dr MONTOYA, Kristina

Session Classification: Session VI

Contribution ID: **100**

Type: **not specified**

Session One Summary: Gamma Strength Functions & Level Densities

Thursday, 2 March 2023 13:00 (20 minutes)

Session Classification: Final Session

Contribution ID: **101**

Type: **not specified**

Sessions Two & Three Summaries: Fission Product Yields, where we are, where we're heading

Thursday, 2 March 2023 13:20 (40 minutes)

Session Classification: Final Session

Contribution ID: **102**

Type: **not specified**

Session Four Summary: Department of Energy Isotope Program

Thursday, 2 March 2023 14:00 (20 minutes)

Session Classification: Final Session

Contribution ID: **103**

Type: **not specified**

Session Five Summary: Nuclear Data Processing & Preservation

Thursday, 2 March 2023 14:20 (20 minutes)

Session Classification: Final Session

Contribution ID: **104**

Type: **not specified**

Closing Remarks & Open Discussion

Thursday, 2 March 2023 14:40 (30 minutes)

Session Classification: Final Session

Contribution ID: **105**

Type: **not specified**

LANL Measurement Capabilities Using HotLENZ

Wednesday, 1 March 2023 09:20 (20 minutes)

Presenter: Dr LEE, Hye Young (LANL)

Session Classification: Session IV

Contribution ID: 106

Type: **not specified**

Oak Ridge National Laboratory Experimental Nuclear Data Capabilities and Needs for Isotope Production

Wednesday, 1 March 2023 09:40 (20 minutes)

Presenter: Dr GRISWOLD, Justin (Oak Ridge National Laboratory)

Session Classification: Session IV

Contribution ID: **107**

Type: **not specified**

NA-114

Monday, 27 February 2023 10:45 (15 minutes)

Presenter: Dr PELTZ, Jim (DOE)

Session Classification: Plenary

Contribution ID: **108**

Type: **not specified**

NA-113

Monday, 27 February 2023 10:30 (15 minutes)

Presenter: CALDWELL, Tod (NNSA)

Session Classification: Plenary

Contribution ID: **109**

Type: **not specified**

NCSP

Monday, 27 February 2023 11:00 (15 minutes)

Presenter: Dr BOWEN, Doug (ORNL)

Session Classification: Plenary

Contribution ID: **110**

Type: **not specified**

NSAC Report

Thursday, 2 March 2023 11:43 (15 minutes)

Presenter: Dr BERNSTEIN, Lee (LBL)

Session Classification: Session VI

Contribution ID: **111**

Type: **not specified**

NEA

Monday, 27 February 2023 09:05 (15 minutes)

Presenter: Dr FLEMING, Michael (NEA)

Session Classification: Plenary

Contribution ID: 112

Type: **not specified**

Making data FAIR through persistent identifiers (PIDs) and the DOE Data ID Service

Wednesday, 1 March 2023 15:30 (20 minutes)

Presenter: Dr HUITT, Drew (OSTI)

Session Classification: Session V

Contribution ID: 113

Type: **not specified**

Public Access Policy and Data Management Plans

Wednesday, 1 March 2023 15:50 (20 minutes)

Presenter: Dr COOKE, Michael (DOE)

Session Classification: Session V

Contribution ID: **114**

Type: **not specified**

CWMD

Monday, 27 February 2023 11:30 (15 minutes)

Presenter: Dr MILLER, Cameron

Session Classification: Plenary