

Session Program

6-9 Jan 2026

Nuclear Data Week 2025

Covariances

Building 555, Hamilton Conference Room
Brookhaven National Laboratory Upton, NY 11973 USA

Thursday 8 January

08:00

Covariances: Covariances

Session |

Location: Building 555, Hamilton Conference Room, Brookhaven National Laboratory Upton, NY 11973 USA

08:00–08:02

Introduction

Speaker

Denise Neudecker

08:02–08:17

TBD (Ta181 Covariance)

Speaker

jesson hutchinson

08:17–08:32

TBD (Standards)

Speaker

Georg Schnabel

08:32–08:47

Using ML to find root causes for discrepancies in experimental data underlying the new 252Cf PFNS Standard

Speaker

Denise Neudecker

08:47–09:02

TBD (model UQ RRR)

Speaker

Vladimir Sobes

09:02–09:17

TBD (exp. UQ and eval. in the URR)

Speakers

Cole Fritsch, Noah Walton

09:17–09:32

Bayesian Model Mixing and the Bayesian Analysis of Nuclear Dynamics (BAND) Software Framework

Speaker

Daniel Philips

09:32–09:47

The BAND approach to optical potentials

Speaker

Kyle Beyer

09:47–09:57

Break

09:57–10:12

Covariances for the LLNL Pu239 Evaluation

Speaker

Andre Sieverding

10:12–10:27

Adjustment of Pu239 Evaluation Using Bayesian Inference

Speaker
Marc Salinas

10:27-10:42 **TBD (AI/ML for photo-induced eval.)**

Speakers
Ajeeta Khatiwada, Ajeeta Khatiwada

10:42-10:57 **TBD (photo-induced eval. and cov.)**

Speaker
Noah Walton

10:57-11:12 **TBD (inventory studies using cov.)**

Speaker
Friederike Bostelmann

11:12-11:27

Gaussian Mixture Models (GMM) for data and covariance evaluations: a phonon density of states case study

Speaker
Goran Arbanas

11:27-11:42 **TBD (TSL cov.)**

Speaker
Chris Chapman

11:42-11:57 **TBD (FPY cov.)**

Speaker
Amanda Lewis

12:00