Session Program

21–29 Jul 2022



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

Machine Learning

Gather.Town

Monday 25 July

09:30

Machine Learning: I

Session | **Location:** Sutter's Fort | **Convener:** David Regnier

09:30–09:54 **Deep Learning applied to Capture Cross Section Data Analysis**

Speaker
Adrian Sanchez Caballero

09:54–10:06 **Quantum computing calculations for nuclear structure and nuclear data**

Speaker
Isaac Hobday

10:06–10:18
Improved calculations of Maxwellian-averaged \textit{n}-capture cross sections using machine learning for intentional forensics and astrophysics

Speaker
Amber Lauer-Coles

10:18–10:30
Automated Nuclear Data Evaluation Tool; Nonconvex Decomposition Method for Resonance Regression and Uncertainty Quantification

Speaker
Noah Walton

10:30–10:42
(WITHDRAWN) Automated grouping of spatially distributed detectors in neutron time-of-flight experiments based on multivariate similarity

Speaker
Jose I. Robledo

10:42–10:54
Scalable Risk-Informed Predictive Maintenance Strategy for Operating Nuclear Power Plants

Speaker
Vivek Agarwal

11:00

11:45

Machine Learning: II

Session | **Location:** Sutter's Fort | **Conveners:** Cole Pruitt, Amber Lauer-Coles

11:45–12:09 **Where Could Compensating Errors Hide in ENDF/B-VIII.0?**

Speaker
Denise Neudecker

12:09–12:21 **Development of a New Fixed-source Sensitivity Tally Capability in the MCNP® Code**

Speaker
Michael Rising

12:21–12:33 **A Study of the Covariance Data in ENDF/B VIII.0 for Low Z Isotopes**

Speaker
Kent Parsons

12:33–12:45 **Burnup Calculation Uncertainty Using Statistical Sampling Method**

Speaker
Xiaofei Wu

12:45