

Information and Statistics in Nuclear Experiment and Theory (ISNET 8)

Tuesday 14 December 2021

**ISNET: 1A (Drischler, Bhattacharya, Giuliani) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>
(08:45-10:15)**

-Conveners: Frederi Viens

time	[id] title	presenter
08:45	[6] Statistical Analyses of Nuclear Reactions	DRISCHLER, Christian
09:15	[7] Calibration of Computer Models, Variational Bayes, and Model Averaging	BHATTACHARYA, Shrijita
09:45	[8] BAND Overview	GIULIANI, Pablo

**ISNET: 1B (Mak, Liyanage, Soltz, Everett) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>
(10:30-12:30)**

-Conveners: Witold Nazarewicz

time	[id] title	presenter
10:30	[9] A Graphical Multi-fidelity Gaussian Process Model for Expensive Computer Code Emulation	MAK, Simon
11:00	[10] Transfer Learning Emulation	LIYANAGE, Dan
11:30	[11] A Hitchhiker's Guide to Correlated Errors	SOLTZ, Ron
12:00	[12] Statistical Analysis in JETSCAPE	EVERETT, Derek

ISNET: 1C (Odell, DeBoer) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061> (13:45-14:45)

-Conveners: Pawel Danielewicz

time	[id] title	presenter
13:45	[13] Bayesian R-Matrix	ODELL, Daniel
14:15	[14] Getting to Know MCMC Applied to Phenomenological R-Matrix	DEBOER, Richard

**ISNET: Discussions and BAND Camp Collaboration Meeting - 1300 Auditorium or via ZOOM
<https://msu.zoom.us/j/95027389061> (14:45-16:45)**

Wednesday 15 December 2021

ISNET: 2A (Pei, Reinhard, Cranmer) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>

(08:45-10:30)

-Conveners: Dean Lee

time	[id] title	presenter
08:45	[16] Bayesian Analyses of Fission Data	PEI, Juchen
09:15	[17] The nuclear neutron radius puzzle -- an error analysis	REINHARD, P.G.
09:45	[18] Incorporating uncertainty at the LHC	CRANMER, Kyle

ISNET: 2B (Baker,Kejzlar, Afanasjev) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>

(10:45-12:15)

-Conveners: Witold Nazarewicz

time	[id] title	presenter
10:45	[19] Quantifying Truncation Errors of Chiral Effective Field Theory in Ab-Initio Nucleon-Nucleus Elastic Scattering	BAKER, Robert
11:15	[20] Calibrating Computer Models	KEJZLAR, Vojtech
11:45	[21] Uncertainty Quantifications in Covariant Density Functional Theory: Results, Challenges and Limitations	AFANASJEV, Anatoli

ISNET: 2C (Vassh, Acharya) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061> (14:00-15:00)

-Conveners: Dean Lee

time	[id] title	presenter
14:00	[23] Coupling Nuclear Physics and Nucleosynthesis Observables with Statistical Methods	VASSH, Nicole
14:30	[22] Bayesian Error Modeling for Calculations of Nuclear Electroweak Reactions	ACHARYA, Bijaya

ISNET: 2D (Kroenert, Bub, Heinz, Alnamlah) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>

(15:30-16:50)

-Conveners: Scott Pratt

time	[id] title	presenter
15:30	[25] Bayesian Analysis for Partial Wave Analysis	KROENERT, Philipp
15:50	[26] Pionless Effective Field Theory Parameter Fitting with Markov Chain Monte Carlo	BUB, Jason
16:10	[27] Approximations and Uncertainties in the IMSRG	HEINZ, Matthias
16:30	[28] Rotational bands in odd-mass nuclei using Effective Field Theory and Bayesian methods	ALNAMLAH, Ibrahim

Thursday 16 December 2021

ISNET: 3A (Raykov, Horn, Lovato, Mayer) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>

(08:45-10:45)

-Conveners: Pawel Danielewicz

time	[id] title	presenter
08:45	[29] We are Getting There Almost All of the Time: Strong Convergence of a Bayesian Estimator with Increasing Number of Observations	RAYKOV, Tenko
09:15	[30] Applying Neural Networks to Shell Model calculations	MERCENNE, Alexis
09:45	[31] Neural Net Wave Functions	LOVATO, Alessandro MERCENNE, Alexis
10:15	[44] Fast Emulation of Few-Body Scattering	ZHANG, Xilin

ISNET: 3B (Mercenne, Neudecker, Krems) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061>

(11:00-12:45)

-Conveners: Taylor Whitehead

time	[id] title	presenter
11:00	[33] Machine Learning in Nuclear Physics	HORN, Tanja
11:30	[34] Machine Learning Methods for Reactions	NEUDECKER, Denise
12:00	[35] Machine Learning for Cold Atoms	KREMS, Roman

ISNET: 3C (Fox, Maridi, Poudel) - 1300 Auditorium or via ZOOM <https://msu.zoom.us/j/95027389061> (14:00-15:10)

-Conveners: Frederi Viens

time	[id] title	presenter
14:00	[37] Bayesian UQ of Shell Model Calculations & Deep Generative Learning Reaction Cross Sections	FOX, Jordan
14:30	[38] Data Normalization of p+9Be Elastic Scattering Below 30MeV: Statistical Study	MARIDI, Hasan
14:50	[39] Bayesian Modeling of the EFT Description of 3He-alpha Scattering	POUDEL, Maheshwar