

## Session Program

3-7 Aug 2020



## **DANCE Machine Learning Workshop 2020**

### ***Interpretability and uncertainty estimation***

<https://lbnl.zoom.us/j/94735075450?pwd=a2U1RGZMODJnZ2xWWnFoc25nbDhuUT09>

# Thursday 6 August

08:15

## Interpretability and uncertainty estimation

**Session** | **Location:** <https://lbnl.zoom.us/j/94735075450?pwd=a2U1RGZMODJnZ2xWWnFoc25nbDhuUT09>

08:15–08:45 **Mapping Machine-Learned Physics into a Human-Readable Space**

**Speaker**

Daniel Whiteson

08:45–09:00

**PandaX-III, Investigation of possible features for the classification of signal and background with CNN**

**Speakers**

Shangning Xia, Shaobo Wang, Suizhi Huang

09:05–09:20

**Machine learning for Neutrinoless Double Beta Decay in NEXT**

**Speaker**

Corey Adams

09:30

09:40

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09:40–09:55 **EXO Summary**

**Speaker**

Igor Ostrovskiy

10:00–10:10

**Towards Deep Neural Network Analysis of Xe137 Decays to the Excited state of Cs137 in EXO-200 Data**

**Speaker**

Seth Thibado

10:10–10:20

**Simulating scintillation signals in EXO-200 with GANs**

**Speaker**

Shaolei Li

10:30

11:00

## Interpretability and uncertainty estimation: Roundtable discussion

**Session** | **Location:**

11:00–11:30 **Room 2: Quantifying uncertainties in inference**

**Location**

<https://uasystem.zoom.us/j/92391291379?pwd=Uk5TNEVsT1BUVHVkd1ZlbtJpNGhWZz09>

11:00–11:30

**Room 1: Ensuring robustness to systematics**

**Location**

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11:30