

Session Program

Mar 16 – 17, 2021

IN2P3/IRFU Machine Learning workshop

Mercredi matin

Remote only

Wed, March 17

9:00 AM

Mercredi matin: Mercredi matin

Session | Location: Remote only | Convener: Valérie Gautard

09:00 – 09:15 IN2P3 School of Statistics 2021**Speaker**

Yann Coadou

09:15 – 09:35 Rainfrog: Automatic detector recognition on the Atlas/NSW fabrication facility at Saclay**Speaker**

Michel MUR

09:35 – 09:50 Comparison of GraphCore IPU and Nvidia GPU for cosmology applications**Speakers**

Bastien Arcelin, Alexandre Boucaud

09:50 – 10:00 Classification of KM3NeT online events with ONNX C++ API**Speaker**

Emmanuel Le Guirriec

10:00 – 10:30 pause**10:30 – 10:45****Extended sources reconstructions by means of Coded mask aperture systems and Deep learning algorithm****Speaker**

Dr Geoffrey Daniel

10:45 – 11:00 A machine learning technique for dynamic aperture computation**Speaker**

Mehdi Ben Ghali

11:00 – 11:15 SNAD: Machine learning assisted discovery in astronomy**Speaker**

Dr Emille Ishida

11:15 – 11:30**Estimating Photometric Redshifts with Convolutional Neural Networks and Galaxy Images: A Case Study of Resolving Biases in Deep Learning Classifiers****Speaker**

Qiufan Lin

11:30 – 12:00 pause**12:00 – 12:15** Updates on the GammaLearn project: application to real data**Speaker**

Dr Thomas Vuillaume

12:15 – 12:30 Probabilistic Mapping of Dark Matter by Neural Score Matching

Speaker
Benjamin Remy

12:30 – 12:45

Automatically Differentiable Physics for Maximizing the Information Gain of Cosmological Surveys

Speaker
Denise Lanzieri

12:45 – 13:00

Deep Learning for Galaxy Image Reconstruction with Problem Specific Constraint

Speaker
Fadi Nammour

1:00 PM