

Session Program

30 October 2017 to 1 November 2017

EFI Data Analytics for Physics

Afternoon session

Sunday 29 October

13:00

Afternoon session: Doing stuff

Session | Location:

13:00–13:45

Introduction to pattern recognition algorithms and Machine Learning

Speaker

Ben Nachman

13:45–14:30

Hands-on: 1D optimal classifier, e.g. a Gaussian process classifier, compared with a simple Neural Network

Speakers

Ben Nachman, Mats Joakim Robert Olsson

14:30–15:00

Coffee break

15:00–15:45

Advanced machine learning application in high energy physics

Speaker

Ben Nachman

15:45–16:35

Keras deep learning images

Speaker

Mats Joakim Robert Olsson

16:35–16:55

Demo: Balancing a pole using "Reinforcement Learning"

Speaker

Mats Joakim Robert Olsson

17:30

Tuesday 31 October

13:00

Afternoon session: Synthesis of previous work

Session | Location:

13:00-13:20 **Run jobs on distributed computing**

13:20-13:50 **MVA and/or machine learning examples**

13:50-14:10 **Visualizations**

14:10-14:30 **Wrap up**

15:30