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