Balázs Kégl

Mercredi 7 mai 2014 à 16h30

Learging to discover: machine learning in high-energy physics

(This is a presentation of the seminar that will be given at CERN on the same topic)

In this talk we will survey some of the latest developments in machine learning research through the optics of potential applications in high-energy physics. We will then describe three ongoing projects in detail. The main subject of the talk is the data challenge we are organizing with ATLAS on optimizing the discovery significance for the Higgs to tau-tau channel. Second, we describe our collaboration with the LHCb experiment on designing and optimizing fast multivariate techniques that can be implemented as online classifiers in triggers. Finally, we will sketch a relatively young project with the ILC (Calice) group in which we are attempting to apply deep learning techniques for inference on imaging calorimeter data.

Salle 101 - Bât. 200, Orsay

Thé et café seront servis ¼ h avant le séminaire