Sexta, 27/11/2020, 11am

Applying and understanding (Very) Deep Learning for physics

Olena Linnyk (Frankfurt Institute of Advanced Studies, Milch & Zucker)

https://us02web.zoom.us/j/87604092022

Abstract:

Let us open the Black Box! Deep Learning is the game changing technology behind the chatbots, DeepL, diagnostic apps as well as fast detector simulations, online calibration and systematic uncertainty reduction. What is Deep Learning and Very Deep Learning and how does it differ from the traditional Machine Learning and rule-based AI? Are there ways to look under the hood and explain the decisions of a deep net? You will see the new research fields opening up and understand, why do I think that the best data scientists are physicist.