

## **The role of machine learning in extracting the secrets of the Higgs (Guest Lecture)**

*Thursday 26 July 2018 16:15 (45 minutes)*

Machine learning has transformed how many analyses are performed at the LHC. I will demonstrate this by showing how machine learning has been and is used in studying the selected properties of the Higgs boson. I will discuss selected example analyses and highlight the sensitivity and other improvements from machine learning. I will conclude by discussing limitations and future perspectives.

**Presenter:** GRAY, Heather (LBNL)