



Contribution ID: 137

Type: **not specified**

Nemo and new ways of understanding physics at the LHC

Monday, November 28, 2022 11:40 AM (15 minutes)

The Large Hadron Collider (LHC), the largest particle collider in the world, was built to study the fundamental building blocks of nature. Large amounts of computational resources are required for many projects involving LHC physics. We present some of the studies performed with the help of the computing cluster NEMO which involves tasks such as the global analysis of LHC measurements, the simulation of collider events from first principles or the application of modern machine learning methods.

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Session Classification: Session I