## CMS Physics Object & Data Analysis School (PO&DAS) 2023



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## Tauon

Friday 13 October 2023 13:30 (2 hours)

Tau leptons are excellent probes of electroweak physics, they decay before reaching the inner layers of the CMS tracker and require a dedicated reconstruction algorithm. With this exercise you will see how hadronically decaying tau leptons are identified with respect to jets, muons, and electrons, and measure the efficiency of the tau identification algorithm in order to measure the Z cross section in decays to tau leptons. You will also get familiar with resolution effects in the tau reconstruction process and other properties that need to be corrected to achieve excellent physics results.

Presenters: Dr CARDINI, Andrea (CMS (CMS Fachgruppe HIGGS)); PONCET, Océane

Session Classification: POG exercises