Contribution ID: **12**   Type: **Notebook talk**

Using Python, coffea, and ServiceX to Rediscover the Higgs. Twice.

Friday 9 July 2021 14:30 (30 minutes)

CERN's Open Data Portal has 1000's of datasets, in many formats. The ServiceX project reads experiment data files of various formats and translates them into columnar formats. This talk will demonstrate taking the CMS and ATLAS demonstration Higgs samples from the CERN Open Data Portal and using Servicex, coffea, and other python tools like awkward array to re-discover the Higgs from both experiments. Differences between working with data from the two experiments will be used to illustrate how the tool-chain works together to produce final plots.

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