

ESCAPE SUMMER SCHOOL



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Data analysis in High Energy Physics (HEP) has evolved considerably in recent years. In particular, the role of Python has gained much momentum, sharing at present the show with C++ as a language of choice. Several (community) domain-specific projects have seen the day, providing (HEP) data analysis packages that profit from, and talk to well with, the huge Python scientific ecosystem, which navigates around NumPy and friends. This lecture introduces the Scikit-HEP project, which I started in late 2016 with a few colleagues from various backgrounds and domains of expertise.

Scikit-HEP is a community-driven and community-oriented project with the aim of providing Particle Physics at large with a Big Data ecosystem for analysis in Python. It has developed considerably in the past couple of years, and is now part of the official software stack of the experiments ATLAS, Belle II, CMS and KM3NeT. In this lecture ample time will be provided to “play around” with the material, in Jupyter notebooks.

Classification de Session: Community specific analysis