PUNCHLunch –

the online lunch seminar of the PUNCH4NFDI Consortium
Every third Thursday, 12:30-13:30 hrs: keynote and discussion

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Thursday, 26 June 2025, 12:30 hrs:

Dr Graeme A Stewart (CERN), Dr. Michel Hernandez Villanueva (Brookhaven National Laboratory), Dr Eduardo Rodrigues (University of Liverpool)

Title: HEP Software Foundation: community software and software sustainability, training, Scikit-HEP project – overview and future

Abstracts:
At the recent WLCG-HSF workshop in Orsay, a number of important community software projects were presented. A lot of progress in these projects is motivated by the need to improve throughput for the HL-LHC. However, there is also a growing awareness that we need to address sustainability concerns on two fronts: improve software sustainability to match the long lifetimes of experiments and the software they use; and lower the environmental footprint of our software, to minimise the overall environmental impact of our science. I will summarise the progress and highlight important trends.

The HSF Training group has fostered a dynamic and supportive learning environment across the high-energy and nuclear physics communities by organizing a wide range of training initiatives. We will present key lessons learned from years of experience in designing and delivering impactful training events. Particular emphasis will be placed on strategies for scaling the training effort, addressing varying levels of expertise, and develop a sustainable training framework that equips researchers with the skills needed by current and future experiments.

Scikit-HEP is a community-driven and community-oriented project that started in Autumn 2016 with the goal of providing an ecosystem for particle physics data analysis in Python fully integrated with the wider scientific Python ecosystem. The project provides many packages and a few "affiliated" packages for data analysis. It expands the typical Python data analysis tools for particle physicists, with packages spanning the spectrum from general scientific libraries for data manipulation to domain-specific libraries. An overview of where the project is will be presented. Areas of particular relevance to community software, impact and engagement will be stressed. Future developments and matters of sustainability will be discussed.

Connection details:
ZOOM Meeting "PUNCHLunch seminar": *https://indico.desy.de/event/49823/*
Webinar ID: 919 1665 4877, passcode: 481572
Next event: The Next event, 17 July 2025

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