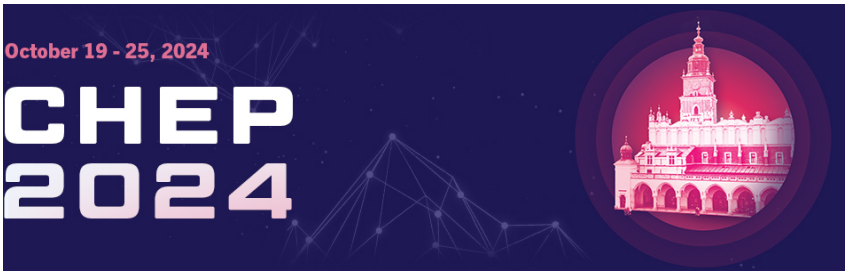

Contribution ID: **567** Type: **Talk**

Serving Photon Science and HEP at the same facility

Thursday 24 October 2024 11:00 (30 minutes)

Historically, DESY has been a HEP site with its on-site accelerators DESY, PETRA, DORIS, and HERA. Since the end of the HERA data taking, a strategic shift has taken place at DESY towards supporting Research with Photons with user facilities at the Hamburg site in addition to the continuing support for Particle Physics. Since then some of the existing HEP accelerators have been redesigned to serve as synchrotron and free electron laser research facilities for Photon Science.

The shift in user communities also required considerable changes to the way computing is provided. DESY not only manages the data taking, storing and archival but also fulfils the role of the user analysis facility as well as providing all necessary auxiliary community tools.

Instead of a few large collaborations with core computing experts, each data taking beam-time is managed by a small group of (often less than ten) scientists. These range from material sciences, over chemistry to biology. As the each group is only present on site for their data taking, each following group starts from scratch with expertise and experience not being persistent as in larger HEP experiments. Similar to the HEP experiments, the data are only accessible to the individual beam-time scientists, but on a much larger scale compared to HEP experiments as DESY has to support all beam-times and assure that the access rights are handled sufficiently. After an embargo period the data are to be made public.

In our talk we introduce our current commitments for our HEP communities and the setup for Photon Science from detector to archival and how existing tools and workflows from DESY's HEP past have been utilised and where new solutions had to be found. Looking into the future, we present our vision for a consolidated computing approach for all our communities from the LHC experiments, to local on-site Particle Physics experiments and Photon Science.

Presenter: VOSS, Christian

Session Classification: Plenary session

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