



Contribution ID: 71

Type: **not specified**

# Future Accelerators: Different Languages, Different Platforms

*Monday, 10 September 2018 15:05 (10 minutes)*

For years we enjoyed on the Grid and our computer centres a uniformity in the computing hardware at our disposal. This will most probably change in the future. What does ROOT need to provide to be able to exploit heterogeneous architectures? What kind of capabilities will our interpreter need? What will be the programming model?

For years we also enjoyed a certain uniformity in the programming languages of our software. C++ and Python demonstrated to be a winning combination for HEP. Will this tandem of languages be the one we'll be using in 10 years from now? If not, is it more likely that the number crunching player is replaced by something else or will we rather replace our powerful glue? In all scenarios, how can ROOT be the framework at the centre of HEP data processing?

**Presenter:** PIPARO, Danilo (CERN)

**Session Classification:** Parallelism, Heterogeneity and Distributed Data Processing