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The SHiP perspective on ROOT

Thursday 13 September 2018 10:45 (15 minutes)

SHiP is an experiment that is currently being designed to look for hidden particles beyond the Standard Model at CERN's SPS. As a SHiP PhD student working (among other things) on its software, I will give an overview of the SHiP software stack, with a focus on how we use ROOT, and how we would like it improve.

I will cover some aspects that are common to small experiments using ROOT, but also some aspects unique to SHiP, which has some uncommon requirements to its software due to the nature of the experiment.

Additionally I will give some personal perspectives on using ROOT for online and offline computing and pyROOT and the scientific python stack for detector optimisation and physics studies.

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