

Data analysis tools from within HEP and from industry

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High energy physics is no longer the main user or developer of data analysis tools. Open source tools developed primarily for data science, business intelligence, and finance are available for use in HEP, and adopting them would reduce in-house maintenance burden and provide users with a wider set of training examples and career options. However, physicists have been analyzing data with computers for over 50 years and have sophisticated needs that are not entirely met by non-HEP tools. HEP tools are more advanced in some ways, non-HEP tools in others. I will discuss several categories of differences with specific examples, with an eye toward how their strengths can be combined.

Author: PIVARSKI, Jim (Princeton University)

Co-author: CRANMER, Kyle

Presenter: PIVARSKI, Jim (Princeton University)

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