

ctapipe: low-level data processing for CTA

Wednesday 20 March 2019 10:15 (45 minutes)

I will present the history, general design considerations and challenges related to the prototype data processing framework *ctapipe*. The purpose of creating *ctapipe* was to provide an API and standard algorithms for creating low-level (reconstruction level) data processing pipelines for Atmospheric Cherenkov Telescopes—specifically for CTA, but also supporting other existing instruments. The goals were to make it lightweight and user-friendly to support developers of varying skill level, and at the same time to allow the flexibility of design such that it might be adapted to run on anything from a user’s Jupyter notebook, to batch-based systems or more complex “big-data” frameworks. The result is a fast-evolving python-based system with optional interfaces with custom high-performance computing libraries.

Author: KOSACK, Karl (CEA Saclay)

Presenter: KOSACK, Karl (CEA Saclay)

Session Classification: Wednesday