



Contribution ID: 260 Contribution code: TUE 05

Type: Poster

## A simplified configuration for common algorithms for ATLAS analysis

*Tuesday 22 October 2024 16:00 (15 minutes)*

In the ATLAS analysis model, users must interact with specialized algorithms to perform a variety of tasks on their physics objects including calibration, identification, and obtaining systematic uncertainties for simulated events. These algorithms have a wide variety of configurations, and often must be applied in specific orders. A user-friendly configuration mechanism has been developed with the goal of improving the user experience from the perspective of both ease-of-use and stability. Users can now configure necessary algorithms via a YAML file, enabled by a physics-oriented python configuration. The configuration mechanism and training will be discussed.

**Primary authors:** RUSSELL, Heather (University of Victoria); LAMBERT, Joseph Earl (University of Victoria (CA)); MAROUN, Matthew Kenneth (University of Massachusetts (US)); KRUMNACK, Nils Erik (Iowa State University (US)); MARTINEZ OUTSCHOORN, Verena Ingrid (University of Massachusetts (US)); LEIGHT, William Axel (University of Massachusetts Amherst)

**Presenter:** MAROUN, Matthew Kenneth (University of Massachusetts (US))

**Session Classification:** Poster session

**Track Classification:** Track 5 - Simulation and analysis tools