

# FLARE: FCCee b2Luigi Automated Reconstruction And Event processing

*Wednesday, October 29, 2025 2:00 PM (30 minutes)*

The FCCee b2Luigi Automated Reconstruction And Event processing (FLARE) package is an open source python based data workflow orchestration tool powered by b2luigi. FLARE automates the workflow of Monte Carlo (MC) generators inside the Key4HEP stack such as Whizard, MadGraph5\_aMC@NLO, Pythia8 and Delphes. FLARE also automates the Future Circular Collider (FCC) Physics Analysis software workflow. These two workflows are naturally combined inside of FLARE allowing a user to have a fully automated pipeline from MC production to final FCCanalysis histograms. With its many customizations and easy to use API, FLARE can simplify running FCCee analyses especially those that require their own MC to be produced via the Key4HEP stack. FLARE also gives HEP researchers interested in the FCC project an easy way to begin FCCee analyses in an automated and controlled way. FLARE is available on PyPI as the hep-flare package.

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