

Estimation of the fluxes in highly granular calorimeters

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The calorimeter systems of the detectors near future HET factories must operate in wildly different running conditions: machine backgrounds, dominant cross-sections and luminosities vary by several orders of magnitude as function of the center-of-mass energy. A determination of the expected fluxes in the calorimeters is mandatory to scale the electronics, its power dissipation and data output.

A versatile tool has been designed to build those fluxes from the detailed simulation: energy, time and occupancy spectra, from which secondary distributions such as power, dynamic ranges in energy and time, and data fluxes can be made for a given hypothesis on the electronics. Preliminary results using this tool will be presented and discussed for the ILD detector.

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