

## Fast simulation and the Higgs with ATLAS

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Presented is an outline of the current simulation options available for use in the ATLAS collaboration. Particular attention is given to the ATLAS fast simulation, ATLFAST. By default, ATLFAST does not account for particle losses due to the reconstruction process. Therefore, a set of parametrisations of the photon reconstruction efficiency, as seen in full simulation, have been incorporated into ATLFAST, and the results are demonstrated with  $H \rightarrow \gamma\gamma$  events.

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