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Experience with using unfolding procedures in ATLAS

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In ATLAS, several unfolding methods are used to correct experimental measurements for detector effects, like acceptance and resolution. These methods use as input the raw experimental distributions, as well as Monte Carlo simulation for the description of the detector effects. The systematic uncertainties associated to the various unfolding methods are evaluated. The statistical and systematic uncertainties affecting the raw measurements and/or the simulation are propagated through the unfolding procedure. The resulting corrected measurements with their uncertainties can be directly compared with the corresponding theoretical predictions.

Summary

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