

## Top mass: challenges in definition and determination

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# Top mass reconstruction techniques in ATLAS

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The top quark is a fundamental constituent of the Standard Model. Its properties are accurately predicted by the theory, except for its mass, which remains a fundamental parameter of the SM. Since the start of the Large Hadron Collider many million of top-antitop quark pairs are available for study. With such a statistics, the physics of the top quark has entered the precision era.

The main techniques used by the ATLAS experiment to reconstruct the top mass are discussed.

**Presenter:** COBAL, Marina (Udine U. & INFN)