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Determination of jet energy resolution in proton-proton collisions of the ATLAS detector (student talk)

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The ATLAS detector at the Large Hadron Collider records high energy proton-proton collisions. These collisions can be used to test the Standard Model of particle physics that explain fundamental interactions of the universe. In these collisions, collimated sprays of hadronic particles, known as **jets**, are dominant final state object produced. They are key ingredients for most physics measurements and searches for new phenomena. Thus, an accurate understanding of the detector's jet energy measurements is an essential component of virtually every physics analysis in the experiment.

I will present ongoing work to determine the jet energy resolution of the ATLAS detector using data collected from 2015 to 2017.

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