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This talk includes some of the current working areas of the Buenos Aires group at the three levels of the ATLAS data processing chain: trigger, performance and physics analyses.

Within trigger development, the tuning of the b-jet trigger and improvement of jet trigger efficiency are discussed.

Next, the jet energy calibration and resolution are presented.

Finally, beyond Standard Model searches for extra dimensions, composite quarks, DM and FC Higgs couplings are shown.

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