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Operation and performance of the ATLAS TileCal ALTI system and test-beam results

The Timing, Trigger and Control (TTC) system of the ATLAS Tile Calorimeter has been replaced for the Run 3 data-taking period. A new TTC interface module, the ATLAS Local Trigger Interface (ALTI) has been integrated and commissioned as part of the Phase-I upgrades. The ALTI module participated in the first Run 3 stable beam collisions (July 2022), recording events at $\sqrt{s} = 13.6$ TeV. The TileCal test-beam TTC system is also being upgraded to use the ALTI module. The test-beam setup is equipped with upgraded electronics for the High Luminosity LHC. The ALTI module will be used for data-taking during the November 2022 test-beam campaign. We present the current status and the first test-beam results with the ALTI module.

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