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The ATLAS Liquid Argon Calorimeter readout electronics will be upgraded for the HL-LHC

This includes the development of custom preamplifiers and shapers with low noise and excellent linearity, a new ADC chip with two gains and new calibration boards with excellent non-linearity and non-uniformity between all calorimeter channels. New ATCA compliant signal processing boards equipped with FPGAs and high-speed links receiving the detector data and performing energy and time reconstruction as well as a new timing and control system are also designed. Test results of the latest versions of the aforementioned components and the latest firmware development will be presented.

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