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ATLAS Liquid Argon Electromagnetic Calorimeter Upgrade Activities

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In about two years, the ATLAS experiment will enter a new phase of data taking (Phase-I) when a new luminosity regime will permit to accumulate more than 300 1/fb of data from pp collisions by the end of 2023. The electromagnetic calorimeter information is a key element for the Level-1 trigger and will require a complete redesign in order to cope with the increased pile-up. Moreover, in 2026 a new upgrade of the LHC complex will start the era of high luminosity (Fase-II) where more than 200 simultaneous collisions per bunch crossing will be a challenge for all subsystems performance, requiring new approaches to provide very fast timing information in order to preserve the performance in extreme phase spaces. In this talk, we will discuss some of the activities underway for Phase-I and the prospects for the Phase-II.

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