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Software development for LHCb ECAL upgrade

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In Upgrade II, the LHCb detector is planned to operate at an instantaneous luminosity almost an order of magnitude larger than Upgrade I. The LHCb electromagnetic calorimeter in Upgrade II, or PicoCal, has gone through substantial development for both the hardware and the software. New algorithms need to be implemented in the LHCb software framework, to corporate with the new layout and functionality of PicoCal. Here, the progress of these software development, mainly focused on the digitization and cluster reconstruction process, is presented.

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