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Electromagnetic Calorimeter of the Belle II Detector

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The electromagnetic calorimeter (ECL) is one of the essential subsystems of the Belle II particle detector. The ECL consists of 8736 CsI(Tl) crystals and is designed to measure direction and momentum of detected particles in high energy range, in the conditions of high beam background. To achieve these objectives, ECL data readout system uses high sampling rate, combined with advanced waveform analysis implemented in FPGA modules. These features, in addition to slow control and reconstruction software ensure good performance of the calorimeter in current physics runs, as well as high-rate tests with 40 kHz trigger rate.

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