

Abstract Submitted  
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**The upgraded KLM detector at Belle II** LEO PIILONEN, Virginia Tech, BELLE II COLLABORATION — We describe the KLM (KLong-Muon) detector for the Belle II detector at the SuperKEKB accelerator located at KEK in Tsukuba, Japan. The endcap RPC (Resistive Plate Chamber) detectors used for Belle have been entirely replaced with a scintillator-based system readout out with Si PMTs. The inner two layers of the barrel have also been replaced. The readout using “oscilloscope on a chip”-based readout electronics will be discussed, as well as expected physics performance.

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