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[345] The SND@LHC detector

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SND@LHC is a compact stand-alone experiment designed to study neutrinos produced at the LHC. The detector consists of a hybrid target made of emulsion cloud chamber walls interleaved with scintillating fibre planes, followed by a hadronic calorimeter and muon system based on scintillating bars. The active detectors are read out with silicon photomultipliers and custom electronics that allow for amplitude measurement and precise timing. The data acquisition operates triggerlessly, with online event building and noise suppression being performed on a central server. This talk will focus on describing the SND@LHC detector system, its commissioning, and the first years of data taking.

Theoretical Work

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