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Overview on measured properties of edgeless detectors and their use in high energy physics

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During the past five years VTT has actively developed fabrication process for the state-of-the-art edgeless strip and pixel detectors with a negligible dead region at the edges (below 1 μm). In total four prototype process runs have been completed and characterization results have been published actively. The presentation gives and overview on the properties of the edgeless detectors fabricated at VTT and how these can be utilized in the demanding environments of the experiments in the high energy physics. The overview part includes latest results from CERN's SPS 120 GeV muon/pion test beam and alpha particle characterization to evaluate the edge activity. Together the obtained results and the straightforward fabrication process yields that this technology is a promising candidate for the future experiments and upgrades that require large area coverage and approach close to the beam line.

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