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First production of Resistive AC-Coupled Silicon Detectors (RSD) at FBK

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In this contribution we explore the recent results coming from the first RSD (Resistive AC-Coupled Silicon Detectors) production run at Fondazione Bruno Kessler. After reviewing the design, layout and technology related to the resistive AC-coupled readout paradigm, we present some static and dynamic characterizations of our detectors before irradiation, along with extensive comparisons between measurements and numerical simulation.

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