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Tolerance of MIMOSIS-1 to ionizing radiation

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The MIMOSIS CPS will equip the Micro Vertex Detector of the Compressed Baryonic Matter experiment at FAIR. It is to combine a 5µs/5µm space and time resolution with a peak rate capability of 80 MHz/cm² and a tolerance to > 5 MRad and 1e14 neq/cm². A first full size prototype, MIMOSIS-1 has been produced by IPHC Strasbourg, Goethe University Frankfurt and GSI.
The in-beam performance of non-irradiated and X-ray irradiated sensors is reported.

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