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## DEPFET Detector development for the Wide Field Imager of ATHENA

The ATHENA X-ray observatory was selected as ESA's second large-class mission, scheduled to launch in the early 2030s. To enable detailed explorations of the hot and energetic universe, two complementary focal-plane instruments are coupled to a high-performance X-ray telescope. As one of these, the WFI (Wide Field Imager) features an unprecedented survey power by combining an excellent count rate capability ( $\geq$  1 Crab) with a large field of view of 40x40 arcmin2. In order to achieve the required energy (< 170 eV at 7 keV) and time resolution (5 ms) with monolithic sensors of 512x512 pixels, dedicated DEPFET detectors have been developed.

In the course of the detector development, a dedicated production of prototype sensors has been fabricated and tested. The studies of those devices resulted in the selection of one sensor variant, which will be used at the pre-flight fabrication. The excellent spectroscopic performance of the selected detector variant will be demonstrated with recent results of a large size detector with 256x256 pixels. The energy response of the device was evaluated by illuminating the detector with characteristic X-ray radiation. Due to the large sensor area, the homogeneity of the entrance window and between individual pixels can be evaluated.

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