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Imaging performance of the ASIM/MXGS gamma-ray imager using Co57 sources

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In August/September 2017 the MXGS gamma-ray location imager of the ASIM mission to the ISS, due for launch in late 2017, was exposed to Co57 point and diffuse sources at various locations in the MXGS field of view to test its data acquisition and angular location accuracy.

We present here an overview of the test program, the MXGS coded mask geometry and its imaging characteristics, the mathematical imaging methods used, along with location scatter plots and radial error estimates.