

Abstract Submitted
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Focal Plane Detectors for the Advanced Gamma-Ray Imaging System (AGIS) R.G. WAGNER, K. BYRUM, G. DRAKE, S. FUNK, N. OTTE, A. SMITH, H. TAJIMA, D. WILLIAMS, AGIS COLLABORATION — The Advanced Gamma-Ray Imaging System (AGIS) is a concept for the next generation observatory in ground-based very high energy gamma-ray astronomy. It is being designed to achieve a significant improvement in sensitivity compared to current Imaging Air Cherenkov Telescope (IACT) Arrays. One of the main requirements in order that AGIS fulfills this goal will be to achieve higher angular resolution than current IACTs. Simulations show that a substantial improvement in angular resolution may be achieved if the pixel size is reduced to 0.05 deg, i.e. two to three times smaller than for current IACT cameras. Here we present results from testing of alternatives being considered for AGIS, including both silicon photomultipliers (SiPMs) and multi-anode photomultipliers (MAPMTs).

karen Byrum
Argonne National Laboratory

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