

Abstract Submitted
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Simulation based evaluation of the designs of the Advanced Gamma-ray Imageing System (AGIS) SLAVA BUGAEV, JAMES BUCKLEY, Washington University in St. Louis, SETH DIGEL, STEPHEN FUNK, Stanford/SLAC Kavli Institute for Particle Astrophysics, ALEX KONOPELKO, Pittsburg State University, HENRIC KRAWCZYNSKI, Washington University, STEOHAN LEBOHEC, University of Utah, GERNOT MAIER, McGill University, VLADIMIR VASSILIEV, UCLA, AGIS COLLABORATION — The AGIS project under design study, is a large array of imaging atmospheric Cherenkov telescopes for gamma-rays astronomy between 40GeV and 100 TeV. In this paper we present the ongoing simulation effort to model the considered design approaches as a function of the main parameters such as array geometry, telescope optics and camera design in such a way the gamma ray observation capabilities can be optimized against the overall project cost.

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