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The Advanced Gamma-ray Imageing System (AGIS): Simulation Design Studies V. BUGAEV, J. BUCKLEY, Washington University, S. DIGEL, Stanford/SLAC Kavli Institute for Particle Astrophysics, S. FEGAN, UCLA, S. FUNK, Stanford/SLAC Kavli Institute for Particle Astrophysics, A. KONOPELKO, Purdue University, H. KRAWCZYNSKI, Washington University, S. LEBOHEC, University of Utah, G. MAIER, McGill University, Montreal, V. VASSILIEV, UCLA, AGIS COLLABORATION — We present design studies for AGIS, a proposed array of ∼100 imaging atmospheric Cherenkov telescopes for gamma-rays astronomy in the 40GeV to 100 TeV energy regime. We describe optimization studies for the array configuration, pixel size and field of view aimed at achieving the best sensitivity over the entire energy range and best angular resolution for a fixed project total cost.

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