

Lessons from the Fermi LAT experience for high precision trackers for future space missions

Designing trackers for future gamma-ray telescopes to operate in the MeV to GeV range requires making tradeoffs for optimizing the scientific performance. In particular, the choice of available detector technologies combined with the limited space and power available to space-based missions suggest that trade-offs between the collecting area, the field of view, and the spatial and spectral resolution will be required. In this contribution I will summarize some lessons learned from the performance optimization of the Fermi Large Area Telescope, and discuss how they may be applicable to the design of trackers for future instruments.

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