Contribution ID: **4** Type: **not specified**

Bayes-Tracking - A novel Approach to Gamma-ray Tracking

A new type of Gamma-Ray Tracking algorithm based on Bayesian inference is presented. The mathematical foundation of this novel algorithm, Bayes-Tracking, is outlined with emphasis on the advantage of being able to include Compton-escaped photons. A first performance test is presented. A gain in Peak-to-Total ratio of the tracked spectrum compared to the untracked spectrum of the detector has been achieved.

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