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Detector Design and Fast Simulation Tool (DDFS)

Friday, 12 July 2024 09:00 (45 minutes)

A Python-based software tool is developed for the performance evaluation of cylindrical tracking system. Incorporating fast simulation techniques, the tool facilitates the assessment of spatial resolution and the effects of multiple scattering, offering both analytical calculations and Kalman filter reconstruction. Additionally, a user-friendly graphical user interface (GUI) has been provided to enhance accessibility for a wide range of users. The software is installable via the Python Package Index (Pip) and supports further customization to meet specific user needs.

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