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Automated Efficiency Plot Comparison for GEM detector

This project aims to automate the comparison of GEM efficiency plots, replacing the current manual inspection process. Each run generates efficiency plots that must be assessed for efficiency. Our proposed solution involves developing a Python script that utilizes OpenCV for automated image comparison based on defined metrics. The system evaluates the comparison against predefined criteria to determine the acceptance or rejection of GEM events. This automation not only streamlines the comparison process but also enhances accuracy and efficiency in analyzing GEM efficiency plots.

Field of contribution

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