

Electronics and data acquisition for PET systems based on silicon photosensors in general

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We present the requirements, challenges and possible implementations of the frontend electronics and the data acquisition systems for high-performance PET systems based on silicon photosensors. Two use cases, namely the APD-based breast scanner ClearPEM and the SiPM-based detector of EndoTOFPET-US, are used as illustrations. The application to a large sensitivity whole-body scanner with long axial field-of-view is also discussed.

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