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Design concept and pilot tests of dedicated two panels prostate PET

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The main goal of this project (called PROSPET) is the development of a PET system for early diagnostic, treatment and following prostate cancer (PCa). It will also allow us for PCa biopsy guiding using real time PET. We aim to significantly improve the efficiency and the spatial resolution in the detection of PCa, when compared to whole body PET scanners. The design of this dedicated PET is based on two panels of detectors surrounding the patient abdomen (nearing the hip). In order to estimate the improvement and to evaluate possible artefacts due to the particular design, we have run simulations using GATE, a Geant4 platform.

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