

# A Reconfigurable Detector for Measuring the Spatial Distribution of Radiation Dose for Applications in the Preparation of Individual Patient Treatment Plans

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## Poster Summary

A novel detection system dedicated for personalised radiation therapy planning designed to have:

- ▶ a detection head allowing for changes in geometry dependant on patient's needs;
- ▶ a scalable Data Acquisition (DAQ) system supporting reconfigurability;
- ▶ a high-level software package using machine learning techniques to analyse medical imaging and generate needed detector geometry for the configuration and simulations.

