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Simulating the 100µPET scanner

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The 100µPET project, a SNSF SINERGIA between UNIGE, EPFL and HUG, aims at producing a small-animal PET scanner with unprecedented volumetric spatial resolution by using multi-layer monolithic silicon pixel detectors.
The Allpix^2 framework is central for the detector's parameters optimization. Different detector geometries and electrical parameters are studied in order to optimize the scanner parameters and performance.
In this contribution we will present the scanner, the results of the simulations and how these were analyzed.

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