



Contribution ID: 6

Type: **Talk**

[352] The 100 μ PET project: Pioneering ultra-high-resolution molecular imaging

Thursday, June 30, 2022 2:45 PM (15 minutes)

The 100 μ PET 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 scanner will pioneer ultra-high-resolution molecular imaging, a field that is expected to have an enormous impact in medical applications.

The results of the R&D on the monolithic pixel ASIC's optimization and the simulated scanner performance will be presented

Primary author: SAIDI, Jihad (Universite de Geneve (CH))

Co-authors: VALERIO, Pierpaolo (CERN); PAOLOZZI, Lorenzo (CERN); VICENTE BARRETO PINTO, Mateus (Universite de Geneve (CH)); IACOBUCCI, Giuseppe (Universite de Geneve (CH)); CARDELLA, Roberto (Universite de Geneve (CH)); CADOUX, Frank Raphael (Universite de Geneve (CH)); FERRERE, Didier (Universite de Geneve (CH)); ZAMBITO, Stefano (University of Geneva)

Presenter: SAIDI, Jihad (Universite de Geneve (CH))

Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (TASK)