

# 4th Jagiellonian Symposium on Advances in Particle Physics and Medicine



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## Invited talk: A new Brain Dedicated PET scanner with 4D detector information

*Wednesday, 13 July 2022 11:00 (20 minutes)*

“4D-PET is a new scanner dedicated to the brain examination. The scanner is based on an innovative detector design, that obtains full 3D impact position of the gamma ray inside the detector crystal, while providing also a precise (in the order of 250ps) determination of its impact time. The detector design is based on crystal slabs that allow also for good Depth of Interaction measurement, critical for dedicated scanners. We will show in this presentation the results obtained with real data at module level and the overall scanner expected performance with simulated data.”

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