

4th Jagiellonian Symposium on Advances in Particle Physics and Medicine



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Invited talk: Multi-isotope imaging and quantum chemical sensing with PET and SPECT nuclides

Wednesday, 13 July 2022 15:45 (20 minutes)

Multi-isotope imaging is important for investigating multi-molecule dynamics in individuals. PET and SPECT dual tracer imaging in vivo is demonstrated with a developed Compton PET hybrid camera. In nuclear medicine imaging, quantum chemical sensing, such as pH and chemical state of molecule, can be additional value to accumulation imaging. pH sensing and imaging is demonstrated with liquid state In-111 SPECT nuclide by double-photon imaging method. Recent works on multi-isotope imaging and quantum sensing with double photon imaging will be introduced.

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