

Barcelona, Spain

EANM Symposium 12

(Physics Committee)

Monday, October 14, 11:30-13:00

Session Title

Digital Detection in Clinical NM (PET & SPECT)

Chairpersons

Cecilia Hindorf (Lund, Sweden)

Mathieu Hatt (Brest, France)

Programme

11:30 - 11:45 Mark Lubberink (Uppsala, Sweden): The Physics of SiPM PET Detection

11:45 - 12:15 Thomas Mognetti (Lyon, France): The Clinical Aspects of SiPM PET

12:15 - 12:30 Laetitia Imbert (Nancy, France): The Physics of Large FOV CZT Detection

12:30 - 13:00 Antoine Verger (Nancy, France) & Philippe Declerck (Brussels, Belgium): The Clinical Aspects of Large FOV CZT

Educational Objectives

1. To teach the principles of SiPM and large FOV CZT detectors
2. Get an overview of what clinicians and physicists will face when transitioning from “analog” to “digital” cameras
3. Learn the clinical benefits of better resolution and the caveats

Summary

The past few years have brought us new so called “digital” detectors for both PETs and large FOV SPECT-CTs. This session will explore the physics of these detectors, their technical and clinical benefits. It will give you an overview of what you must know to successfully adapt your practice, from building a business plan to justify the investment, to setting up the machine and finally to reading these new images.

Key Words

Digital PET, large FOV CZT