



Contribution ID: 26

Type: **Invited**

## **Spectral/ Photon Counting CT - Introduction & Clinical (Neuro-)Applications**

*Tuesday 6 September 2022 10:30 (30 minutes)*

Computed tomography (CT) is a standard imaging tool for the examination of the head and the entire body. For neurological applications, the detection or rule-out of hemorrhage and stroke are the most crucial questions that have to be answered. The high availability worldwide and the fast acquisition time make CT a valuable tool in an emergency setting.

Dual Energy CT (DECT) provides information on the examined tissue at two energy levels, and therefore offers the possibility to calculate (virtual) monoenergetic images at different energy levels, virtual non-contrast images (VNC), material specific images like e.g. iodine maps and images indicating the atomic number of the scanned materials (z-effective maps).

The aim of this presentation is to show several clinical scenarios where Dual Energy CT and Photon Counting CT can improve diagnosis in neurological applications

### **Topic Selection**

**Presenter:** PFEIFFER, Daniela

**Session Classification:** Other techniques/ analysis

**Track Classification:** Other techniques and analysis