



Contribution ID: 2

Type: not specified

## Towards the application of patterned RPCs to very high resolution RPC-PET for small animals

*Thursday 15 September 2016 15:40 (20 minutes)*

We present imaging results of needle-like and planar  $^{22}\text{Na}$  sources obtained with a prototype of a high-acceptance small-animal positron emission tomograph based on patterned resistive plate chambers (RPC-PET). The maximum-likelihood expectation-maximization (MLEM) reconstruction of the acquired data yielded an excellent and stable resolution of 0.4 mm FWHM.

**Presenter:** FONTE, Paulo

**Session Classification:** Workshop III