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

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We present imaging results of needle-like and planar ^{22}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

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