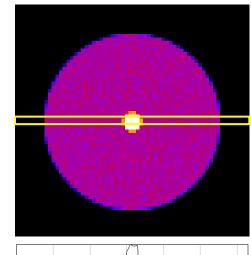
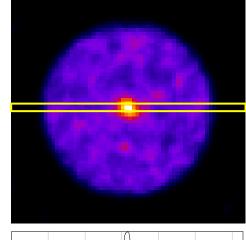


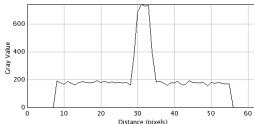
XEMIS2 Image reconstruction **Preliminary**

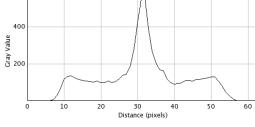












GATE simulation:

• Water cylinder phantom filled with homogeneous source ⁴⁴Sc (length. 15 cm, diam. 5 cm) + sphere located at the centre, contrast x4 (diam. 5 mm)

low activity 20 kBq

•Acquisition time 20 minutes

Image 64 x 64 mm² Voxels 1x1x2 mm³ Central slice (z = 0 cm)

Image reconstruction: 3γ + list-mode MLEM algorithm after 50 iterations

L. Parra et al., List-Mode Likelihood: EM Algorithm and Image Quality Estimation Demonstrated on 2-D PET, IEEE Trans. On Med. Im., Vol. 17, No 2, April 1998.