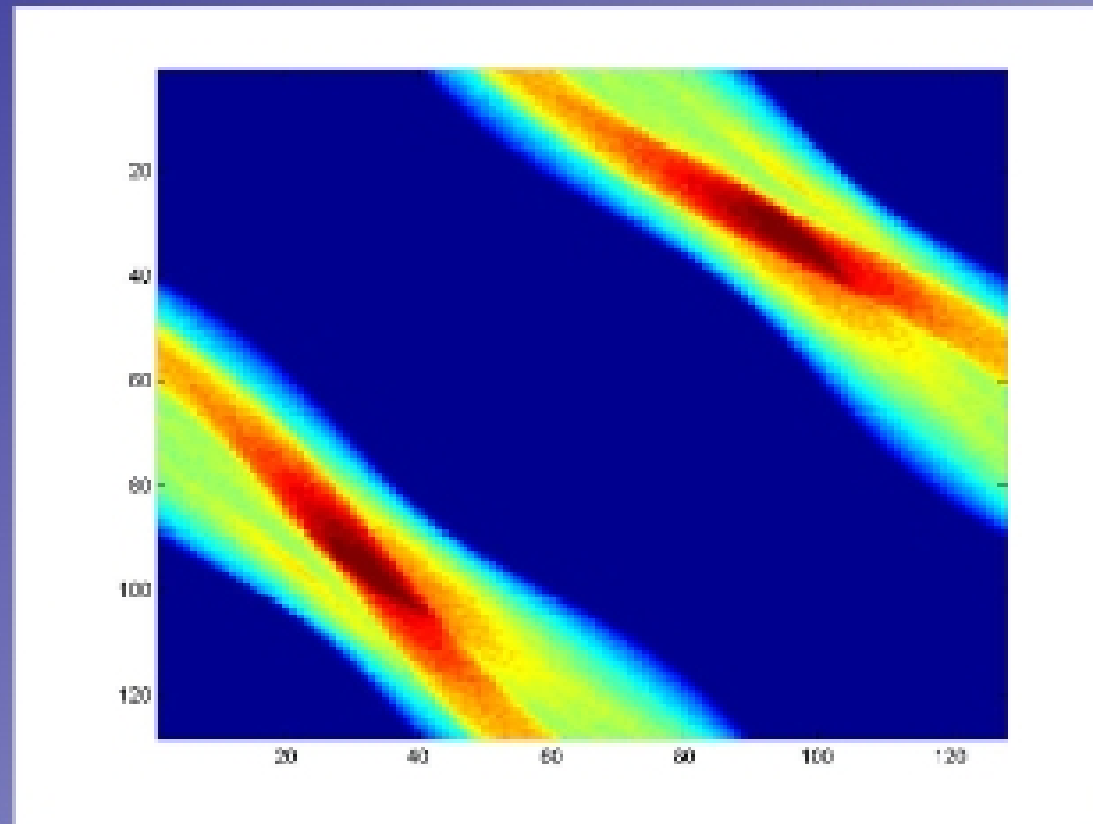


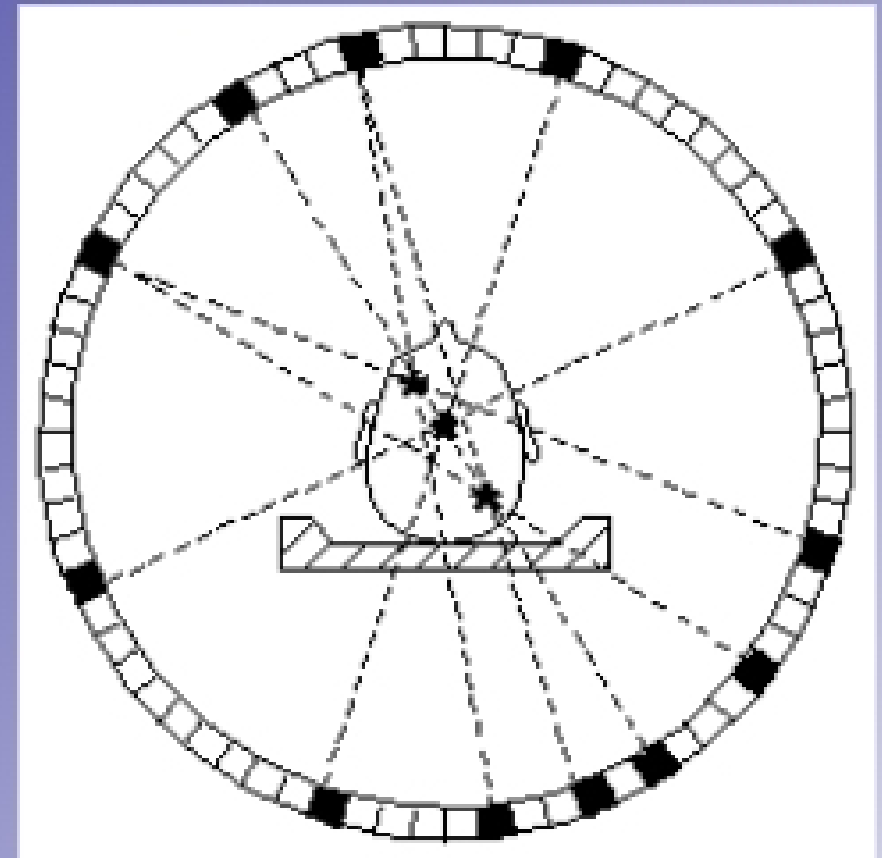
Implementing the Probability Matrix Technique for Positron Emission Tomography



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Introduction

- PET vs. CAT
 - PET ~ metabolic
 - CAT ~ anatomical
- The Process
 - Tagged chemical compound
 - Positrons in compound meet electrons in the body ~ annihilation
 - Photons produced at 180°
 - Detection
 - Problem: Reconstruct the image using tube data



Grids

- Put grid over organ of interest
 - 2 dimensions - pixels
 - 3 dimensions - voxels
- Finer grid, more detail
- Finer grid, more comp time and space

