

Supplementary material

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Received: date / Accepted: date

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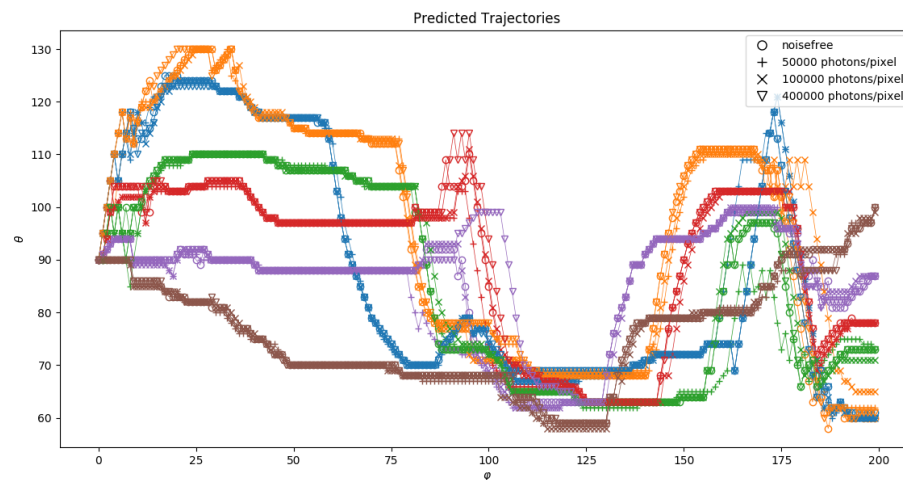


Fig. 1 Trajectories predicted for different noise levels of the X-ray projections. All acquisitions are plotted in one color for each screw-pair and start at the same out-of-plane angle of 90° . The different noise levels are indicated by different markers: Circles correspond to the noisefree acquisitions, crosses to $5 \cdot 10^4$ photons per pixel, x to $1 \cdot 10^5$ photons per pixel and triangles to $4 \cdot 10^5$ photons per pixel.

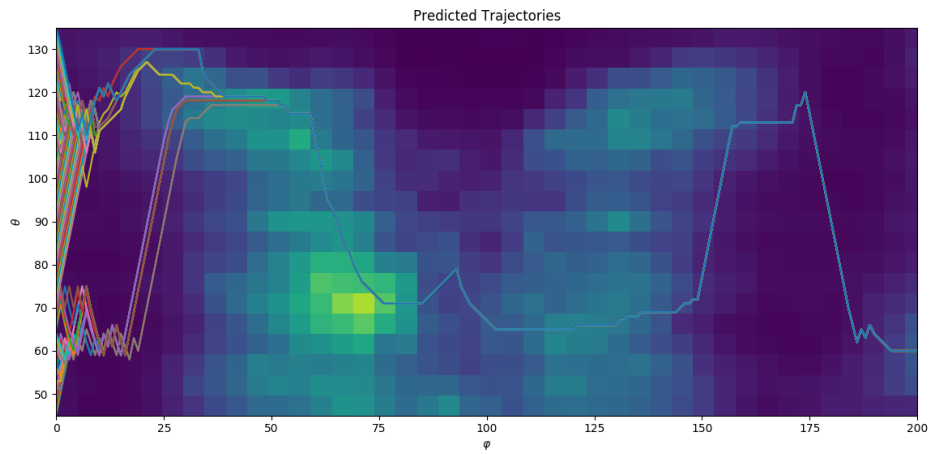


Fig. 2 Trajectories predicted for all out-of-plane starting angles in the range $45^\circ \leq \theta \leq 135^\circ$, with an increment of 1° . The background image corresponds to the groundtruth detectabilities and the plots indicate the chosen trajectories.