

# Determining beam location: CW1, IO Faraday

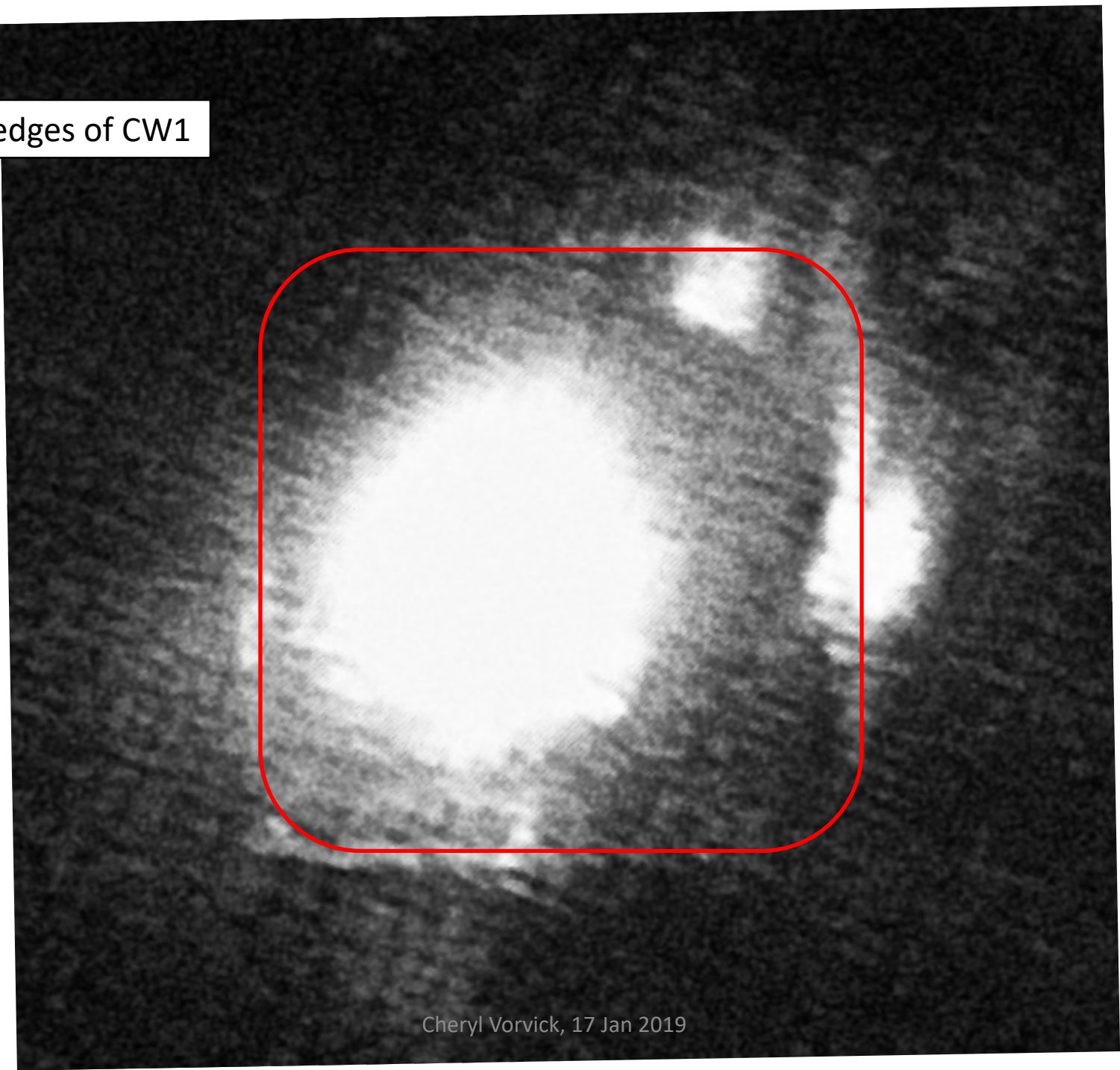
Cheryl Vorvick

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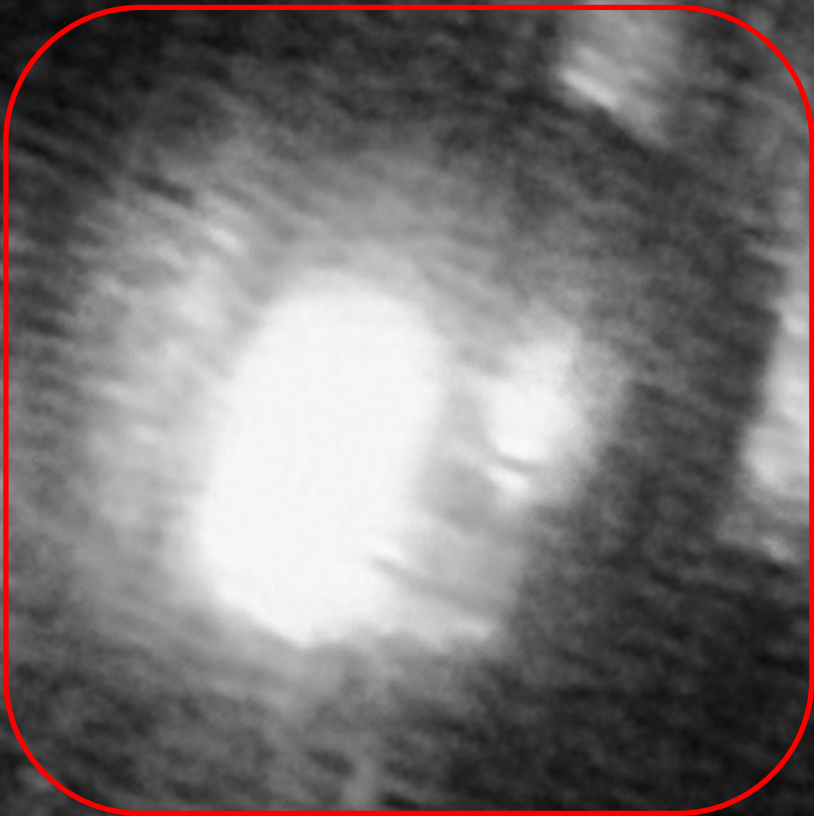
CW1 back surface illuminated with 30W



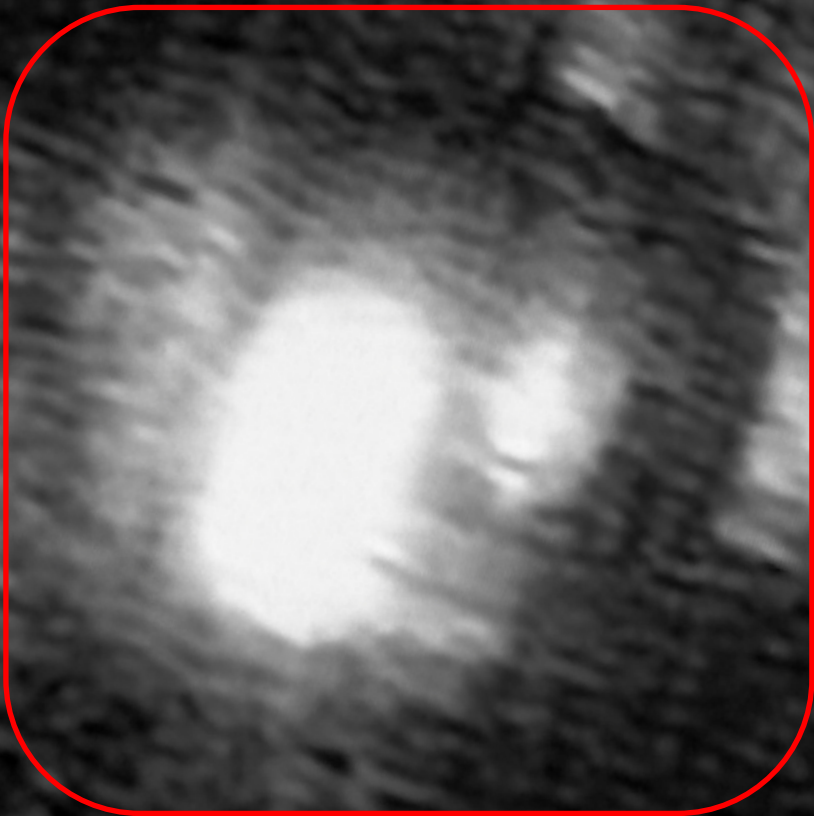
This image defines the edges of CW1



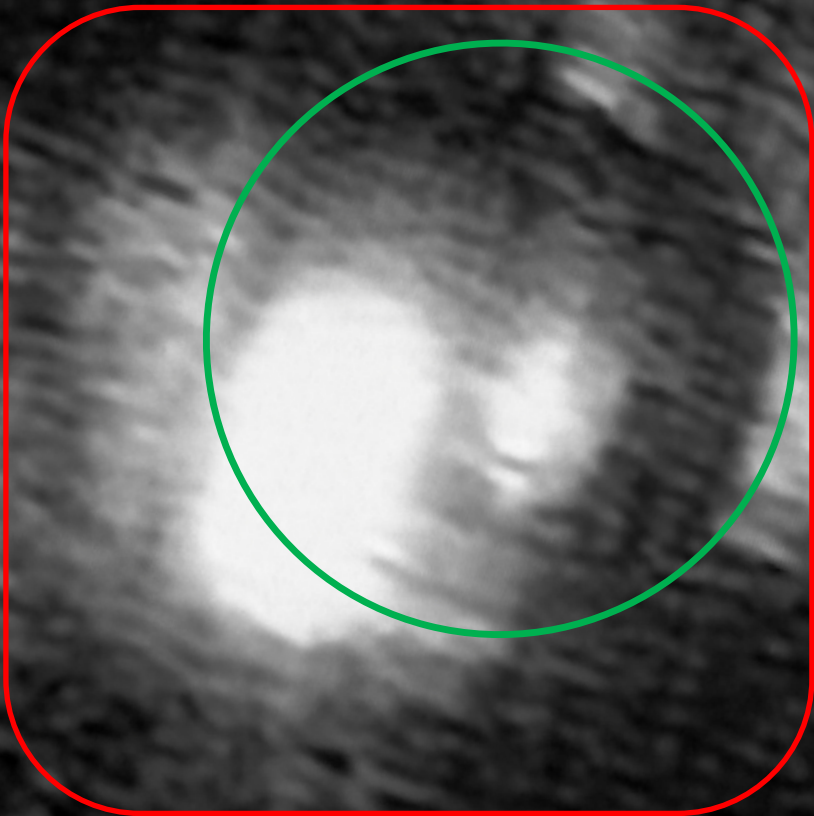
The target image is matched and the CW1 edges are identified



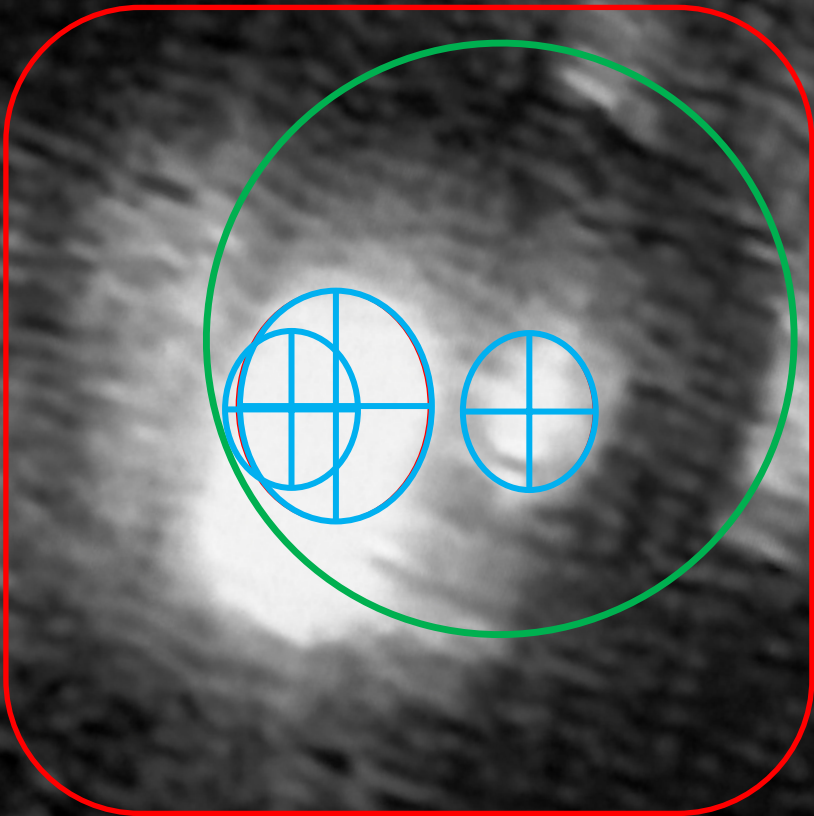
The image of CW1 is ready for analysis



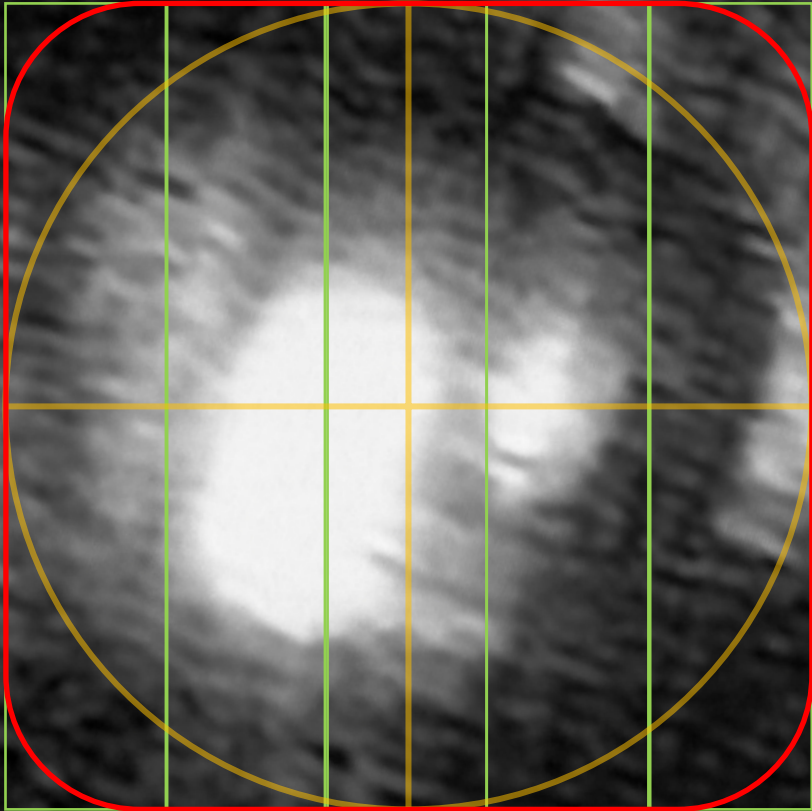
The baffle aperture is identified



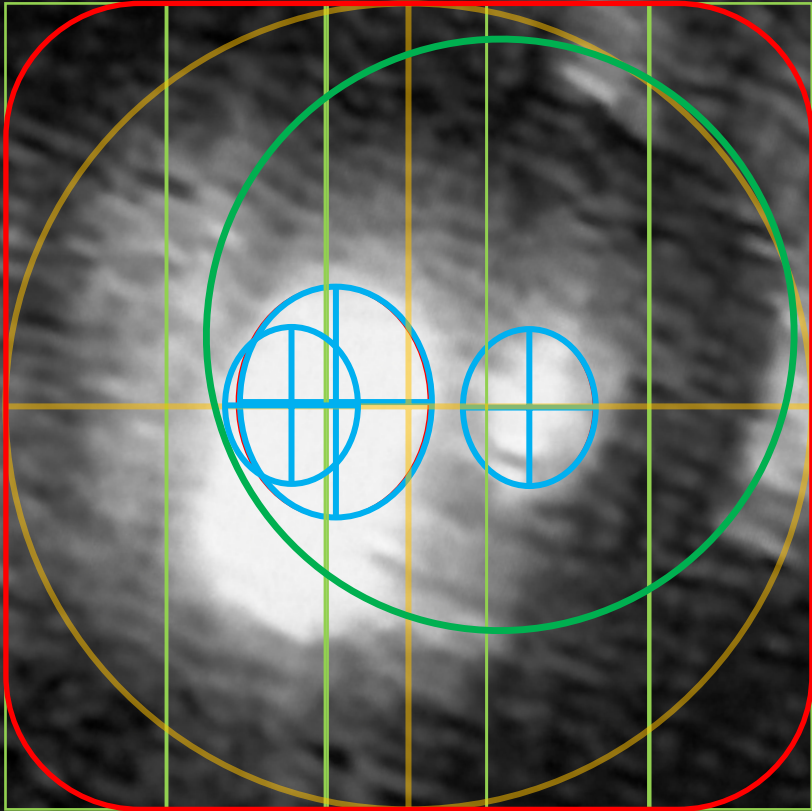
The three beams used in the analysis are identified



The outline of CW1's edges are filled in with alignment markers



The alignment markers and beam markers are combined



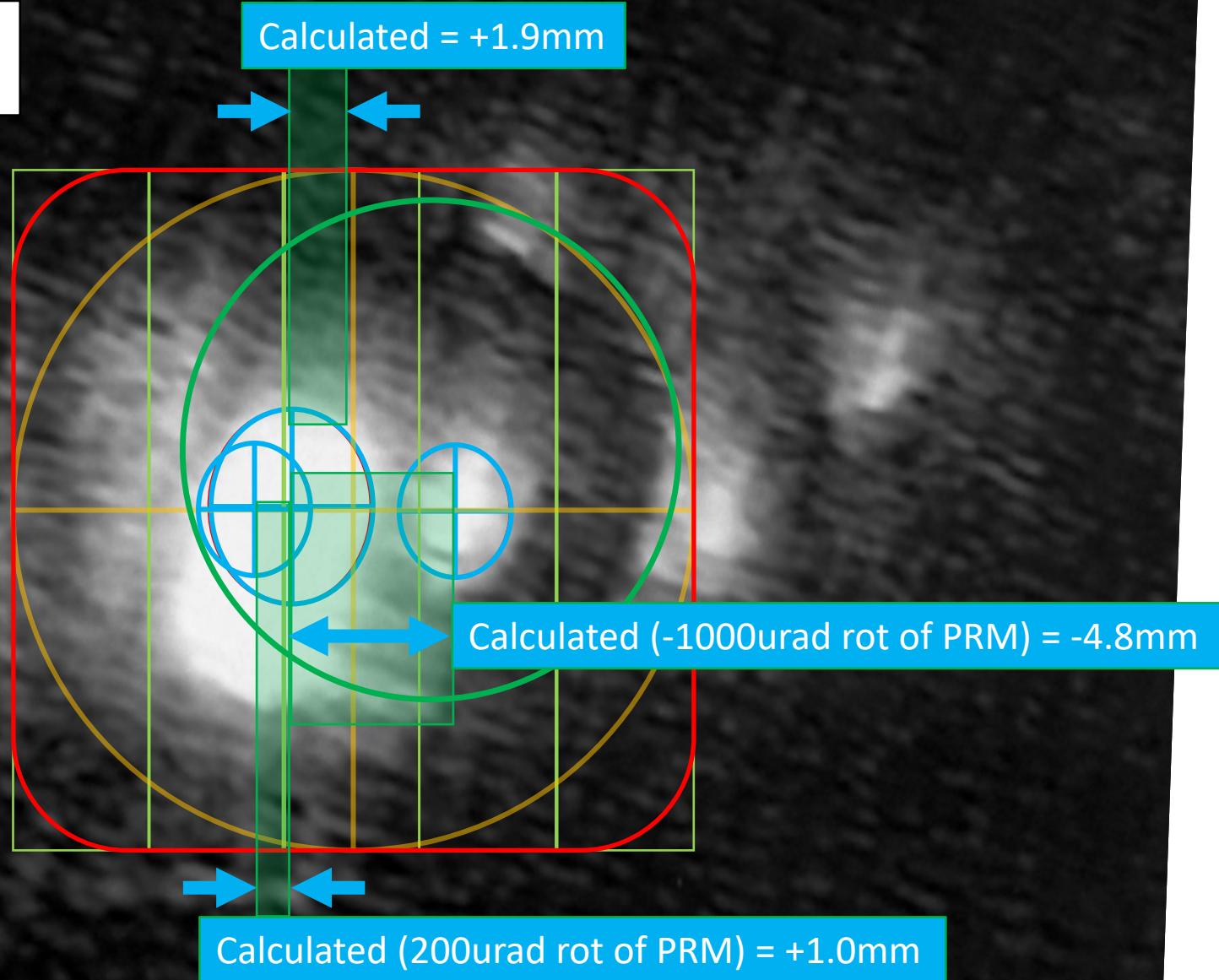
Measurements are taken from the image

Measured from image = +2.4mm

Measured from image = -6.0mm

Measured from image = 1.2mm

A simulation of the beam path is created and used to calculate beam positions.



PRM to CW1 = 2674.7mm  
CW1 = 25mm x 25mm  
(not to scale x vs y in image due to camera angle)