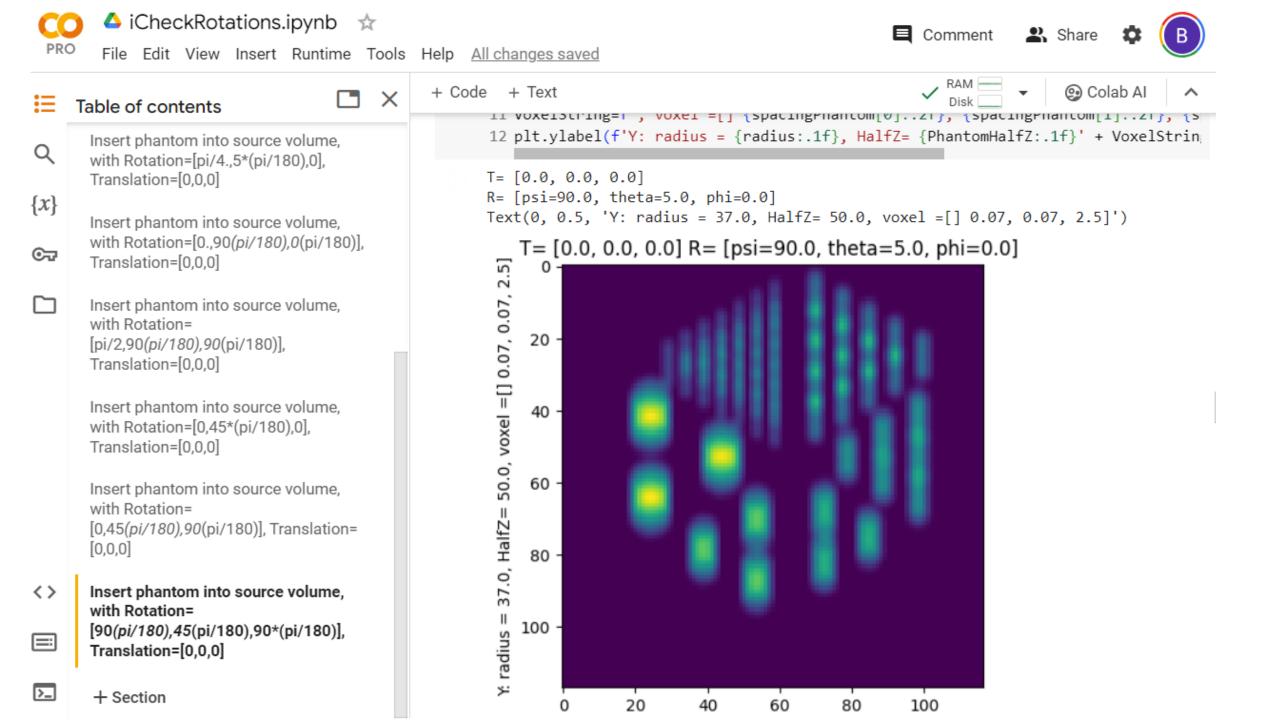
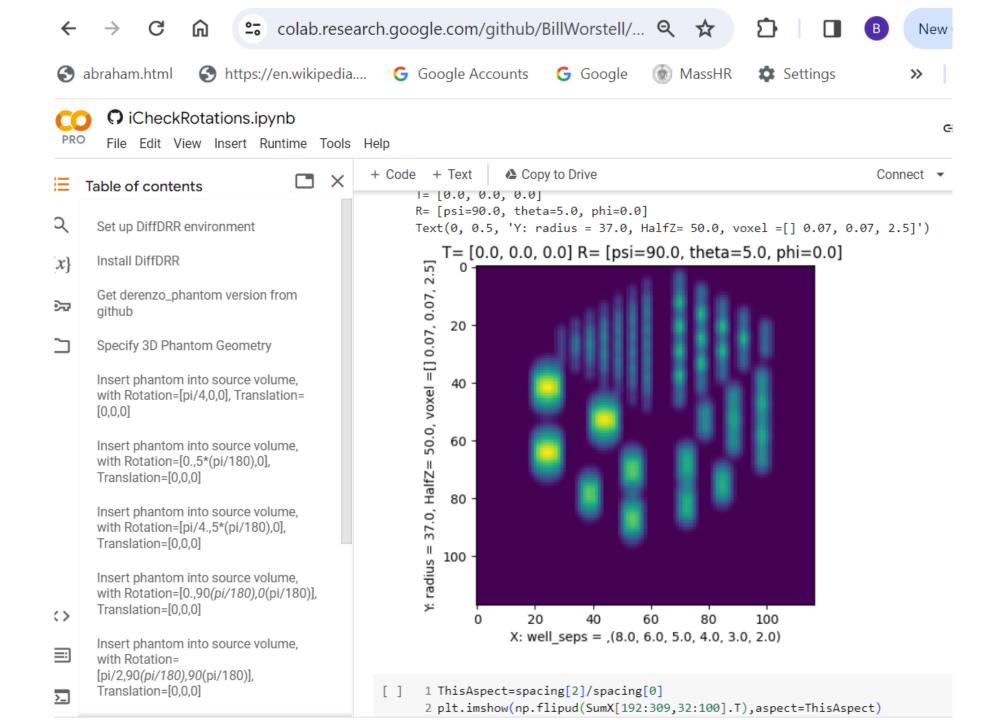
Derenzo Phantom iCheckRotations.ipynb

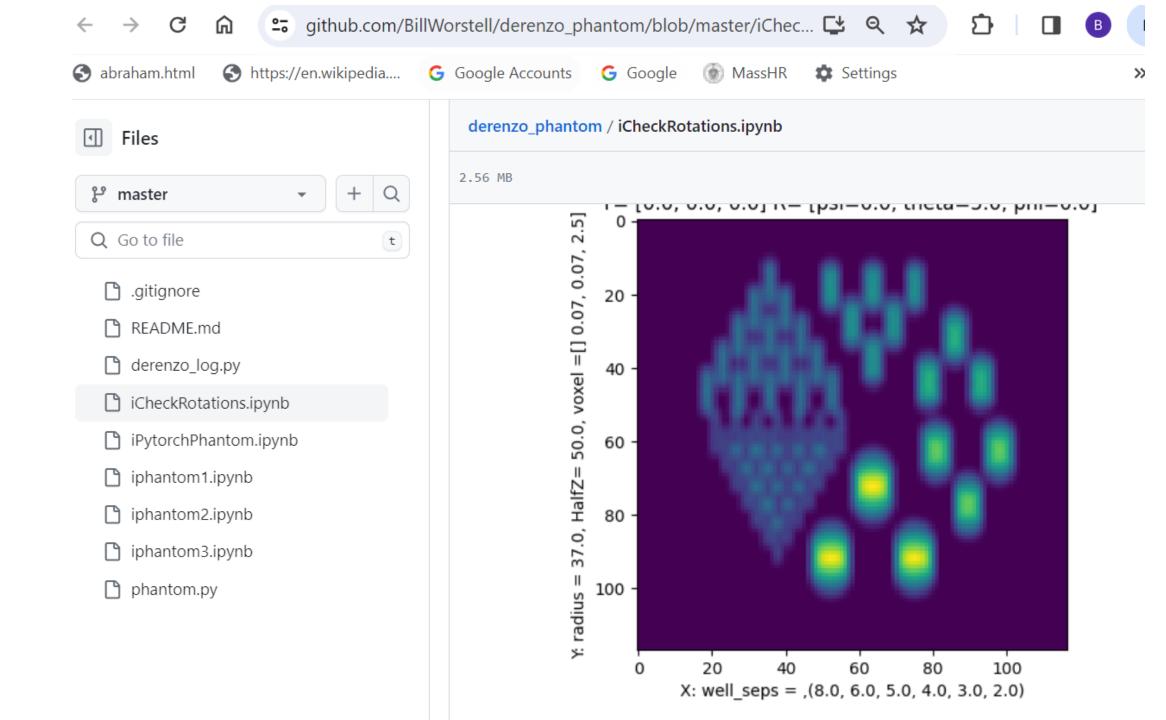
Bill Worstell

PicoRad->MGH

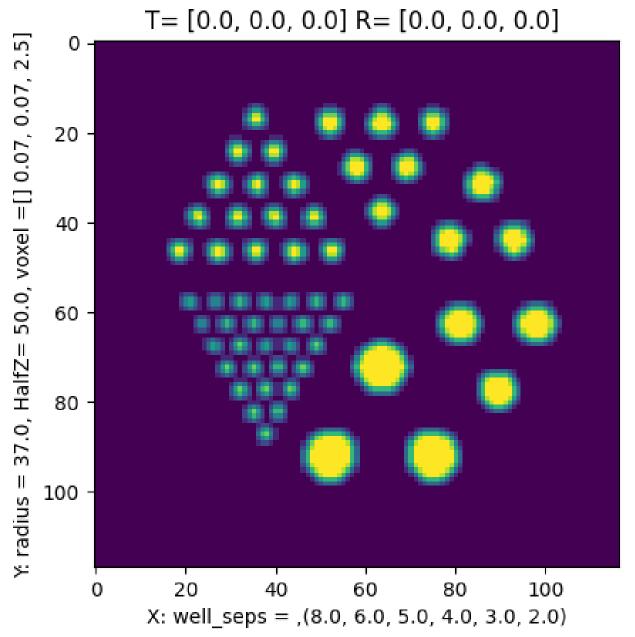
1/16/2024

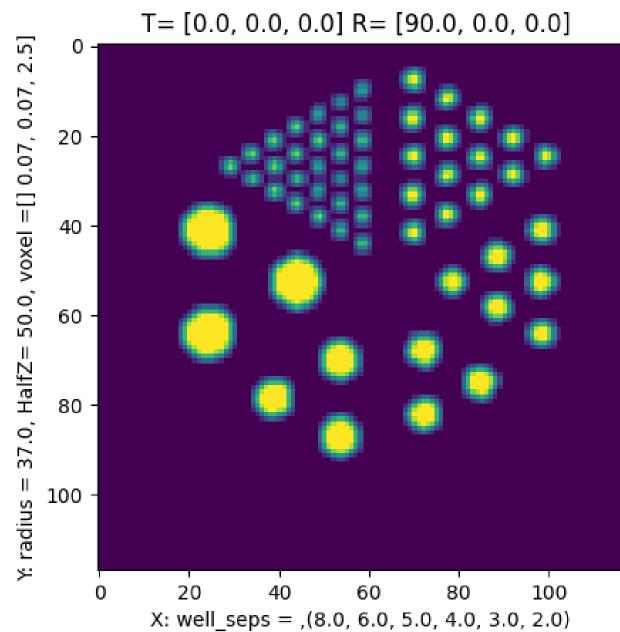


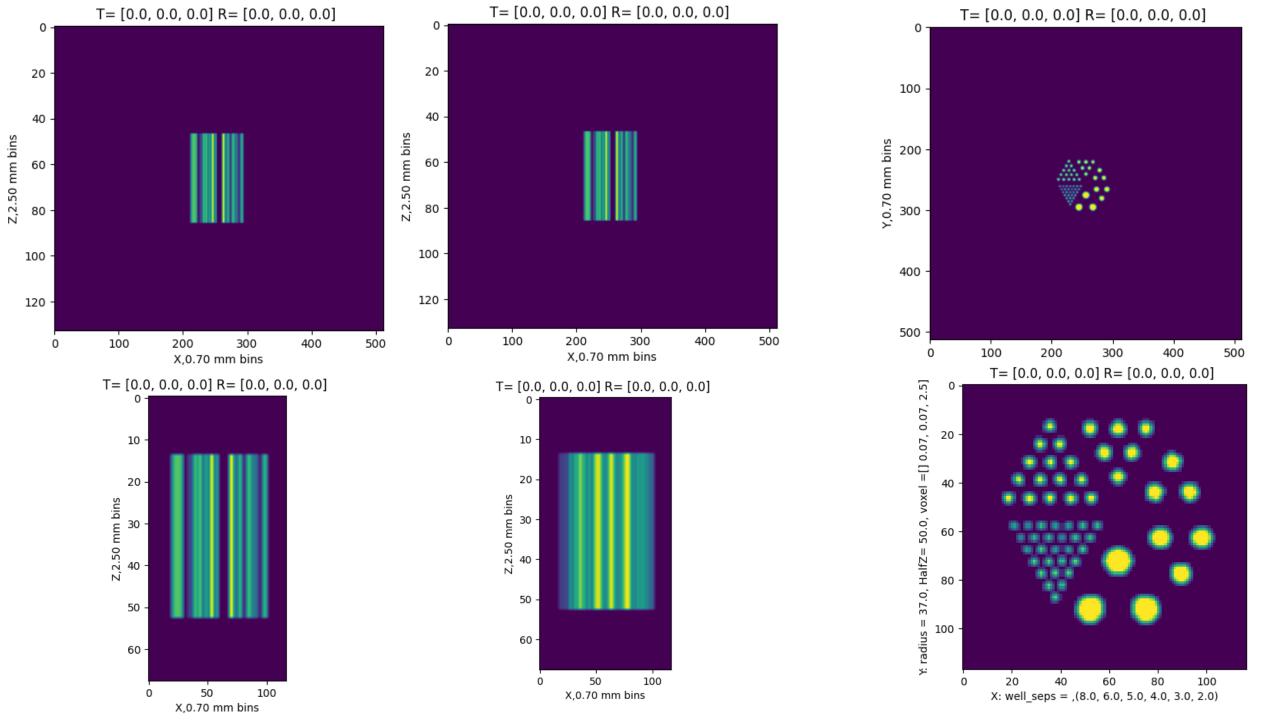


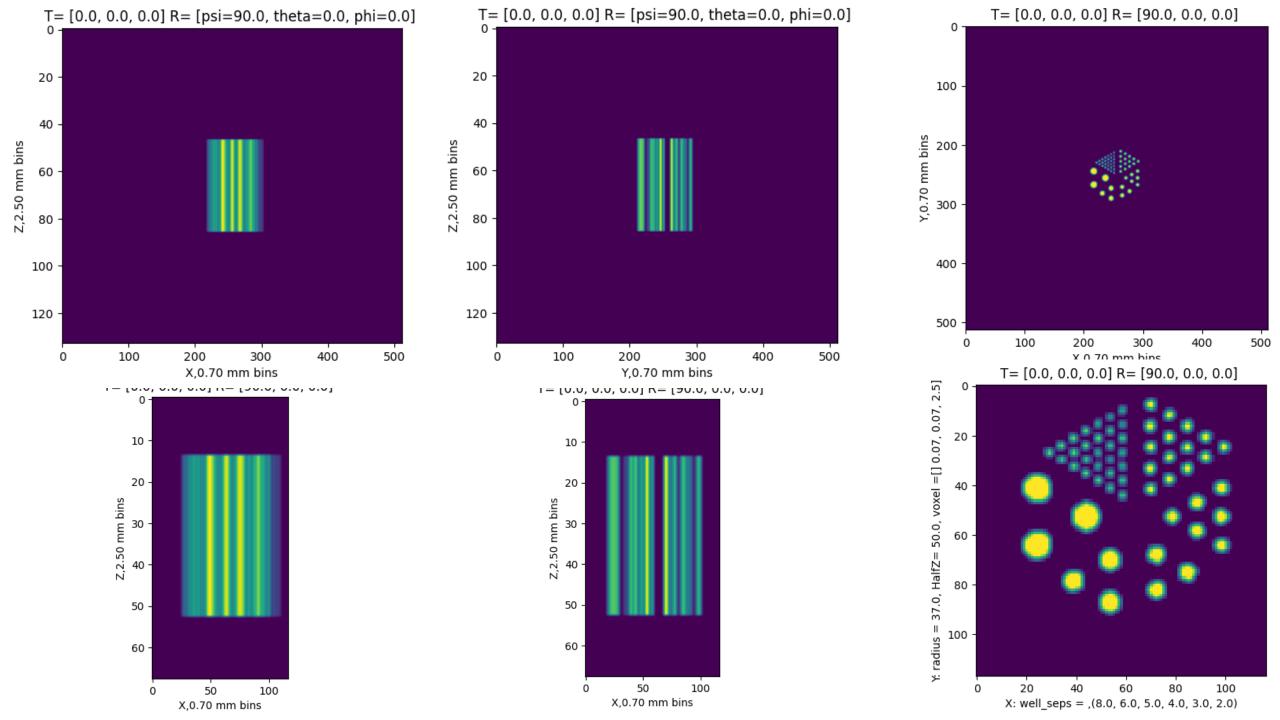


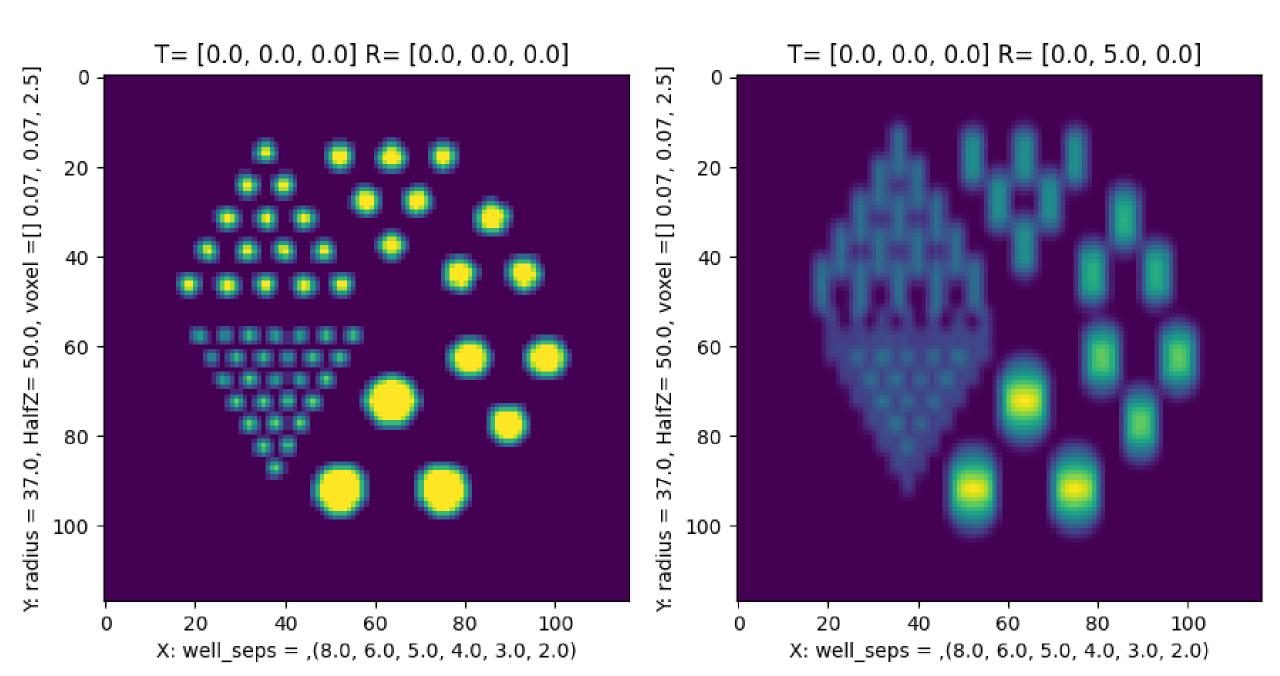
First rotation in lab frame is about phantom axis

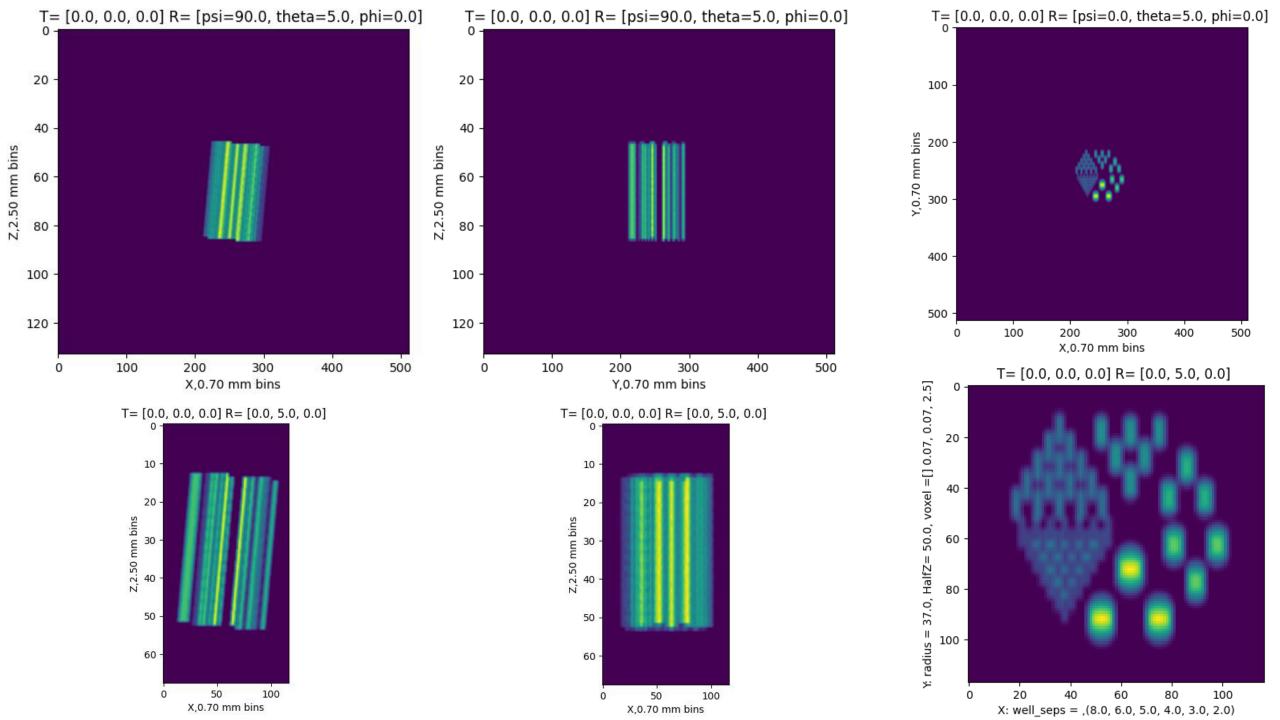


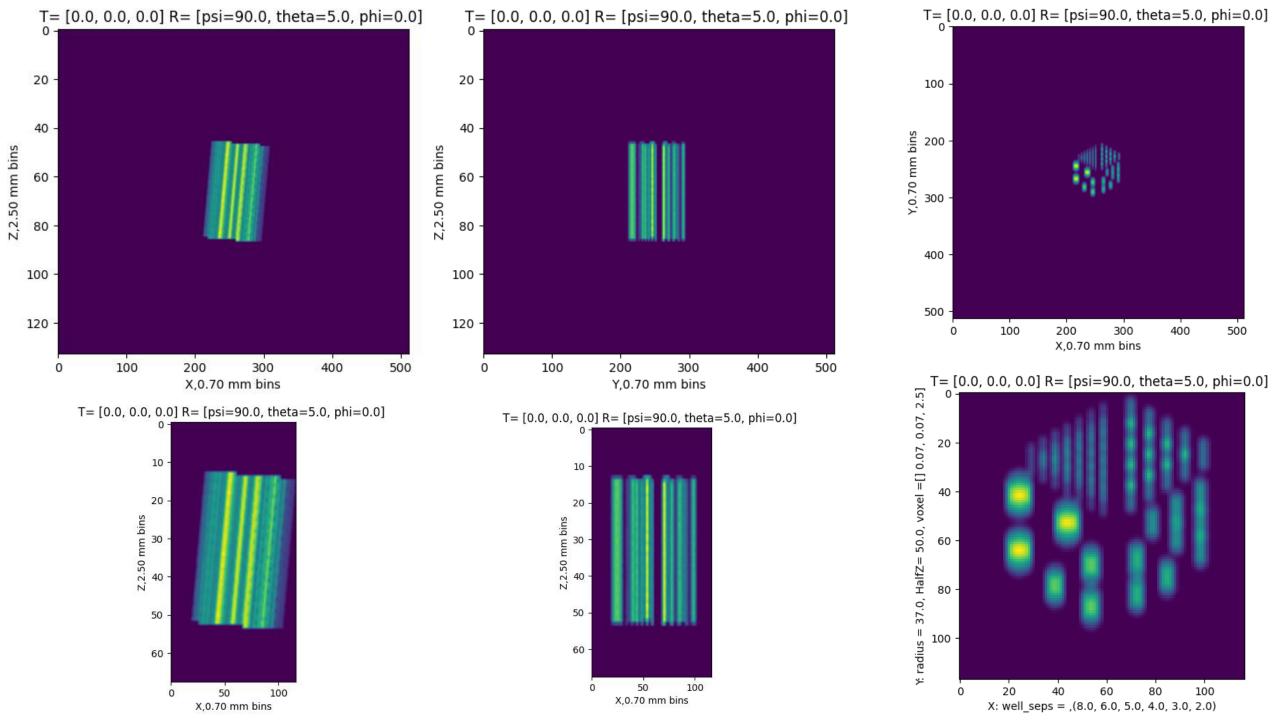




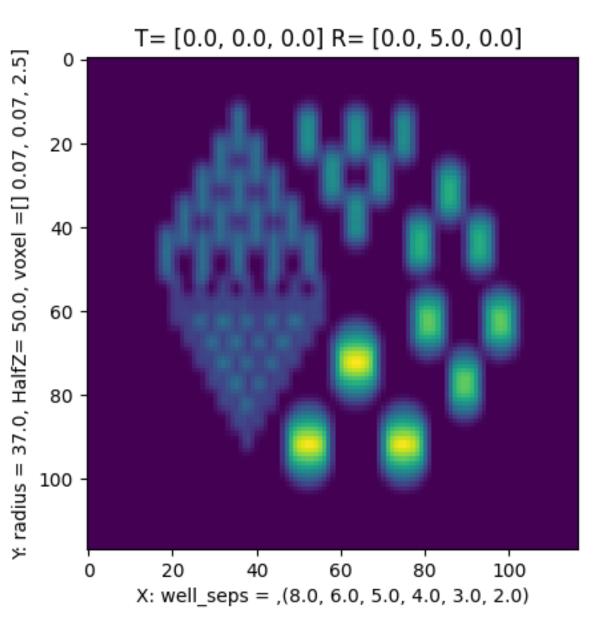


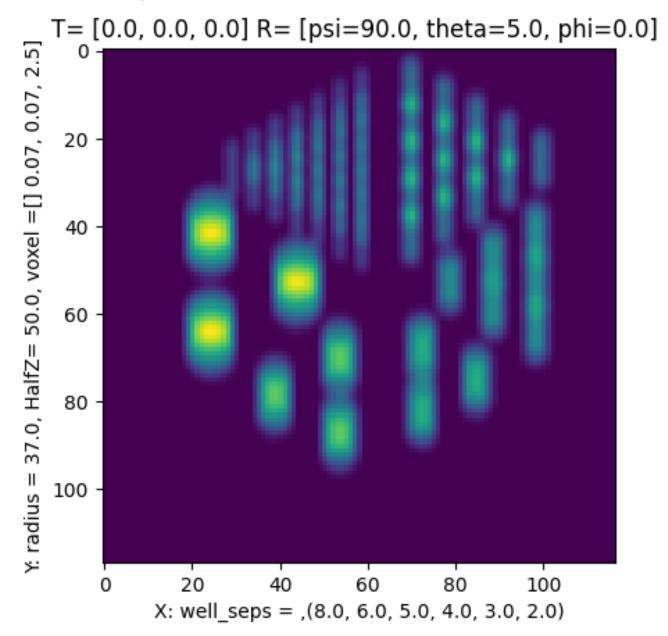


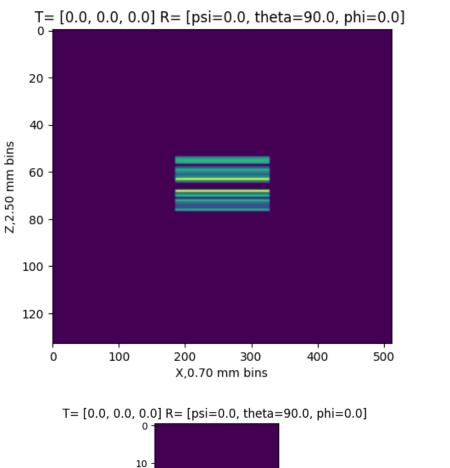


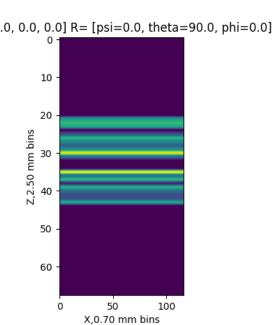


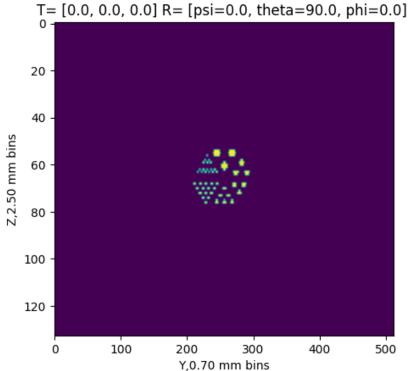
Second rotation in lab frame sets phantom axis altitude

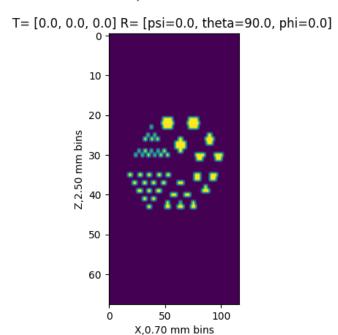


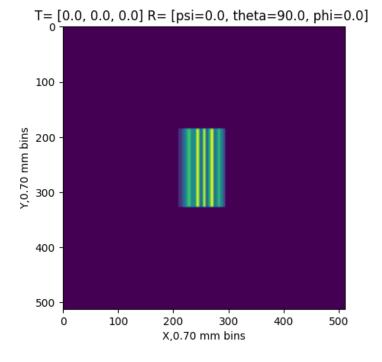


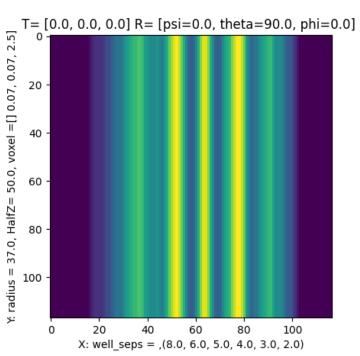


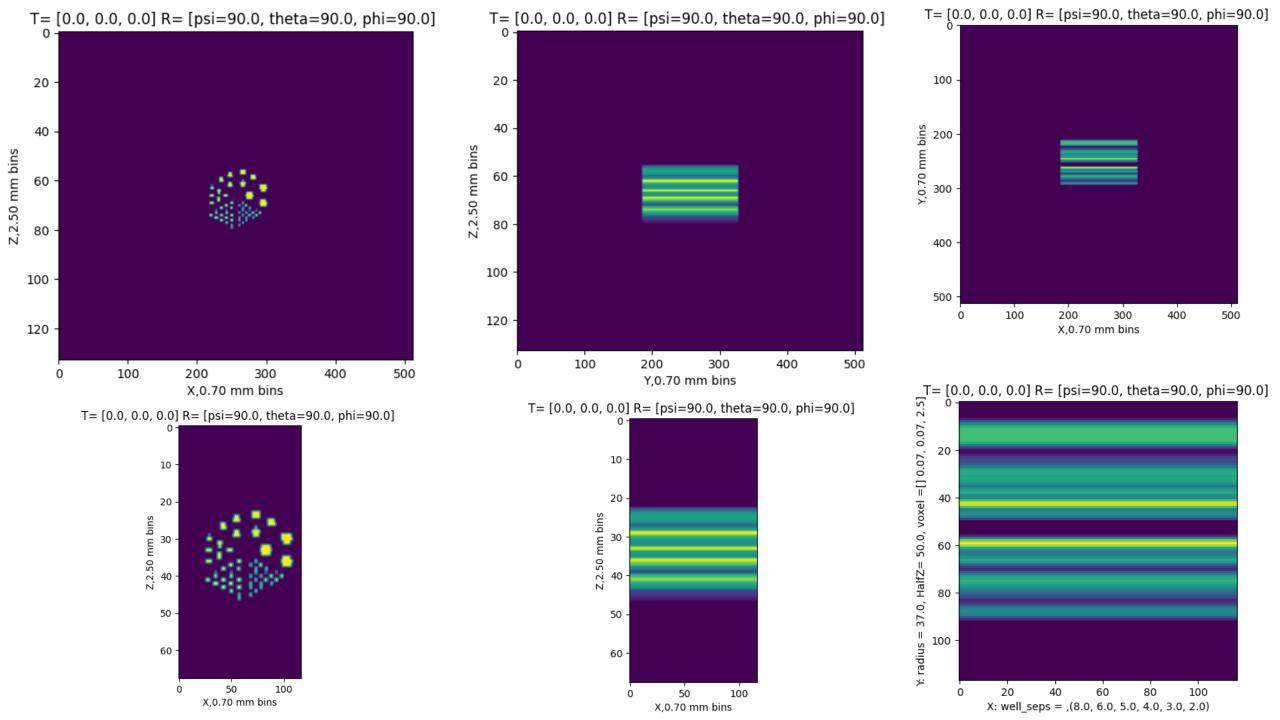


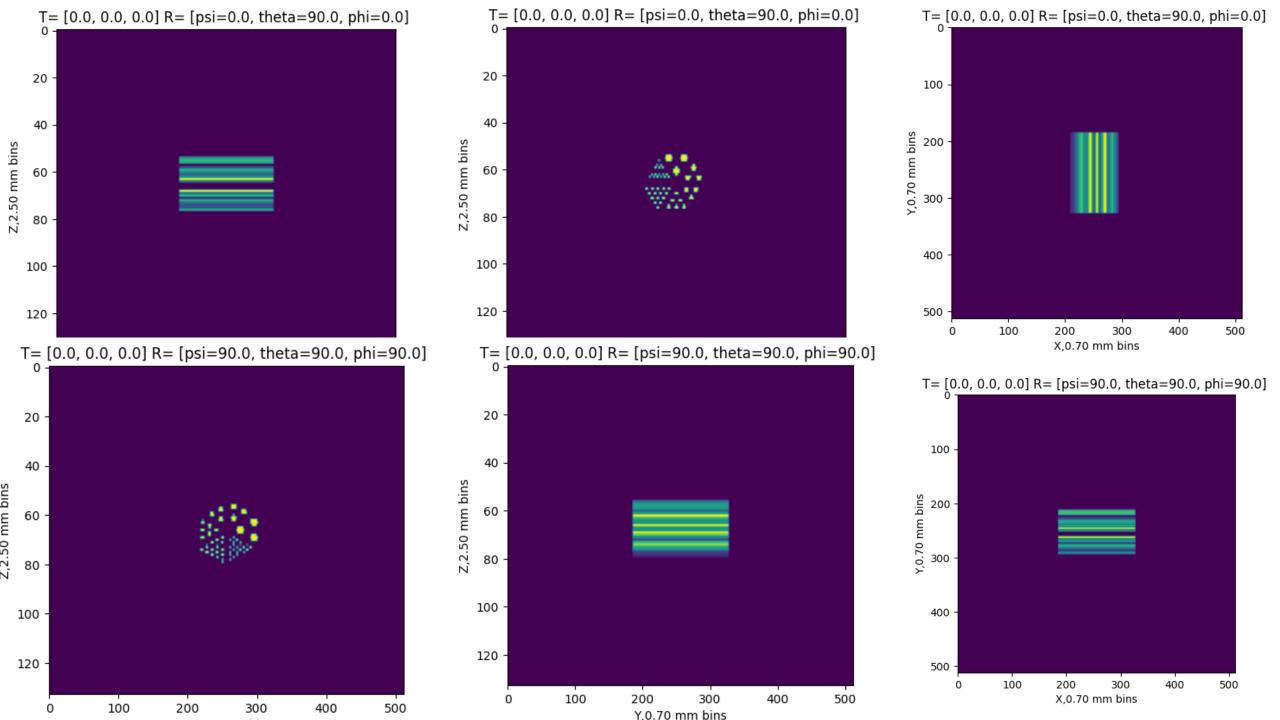


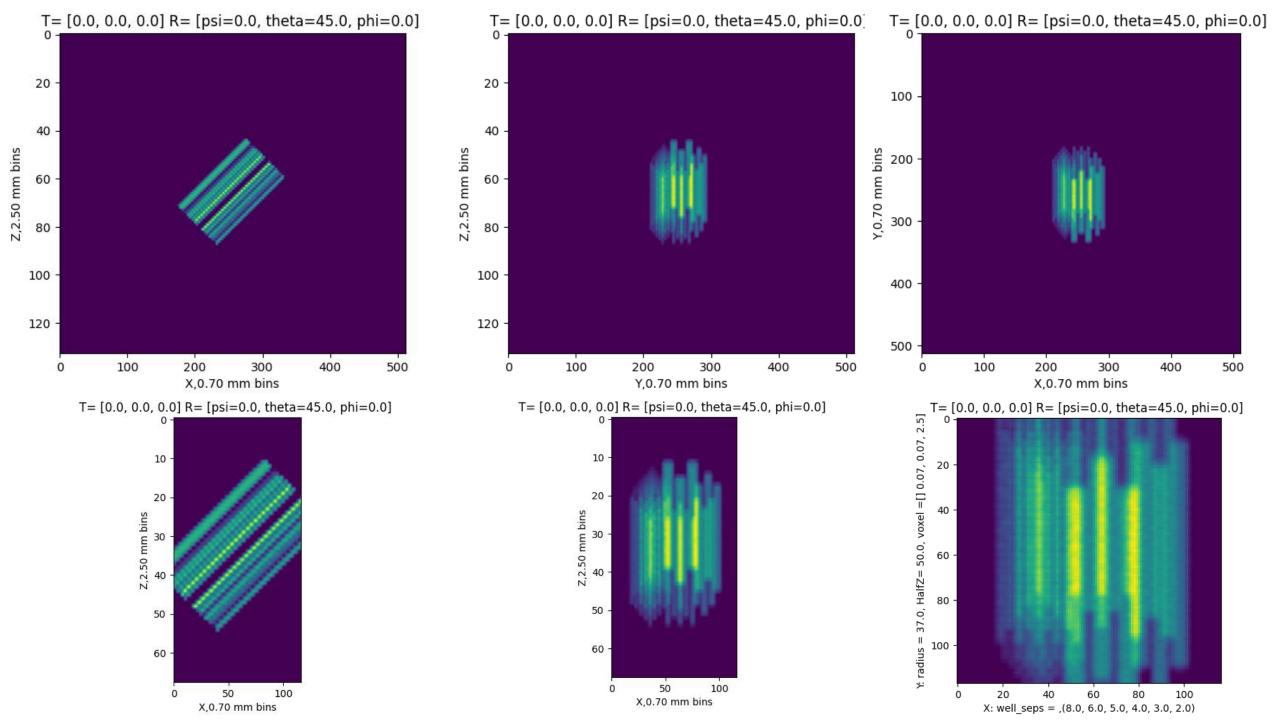


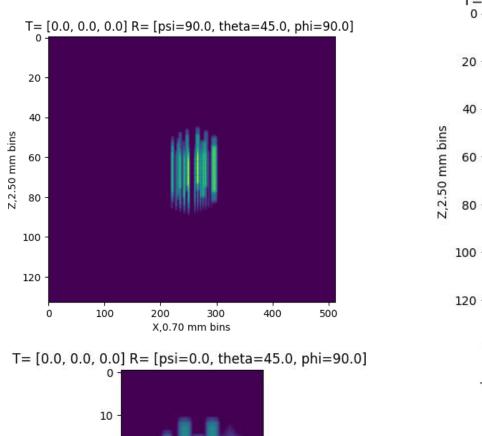


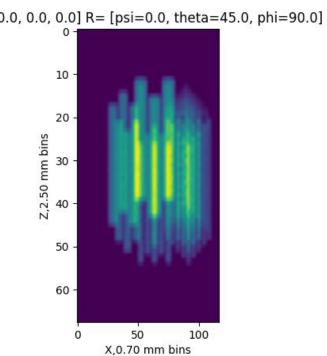


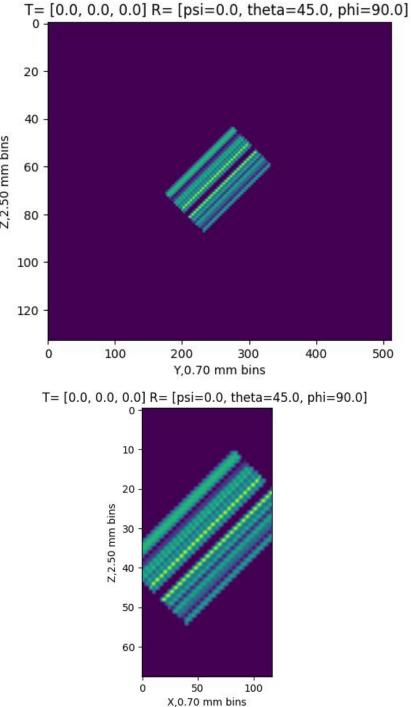


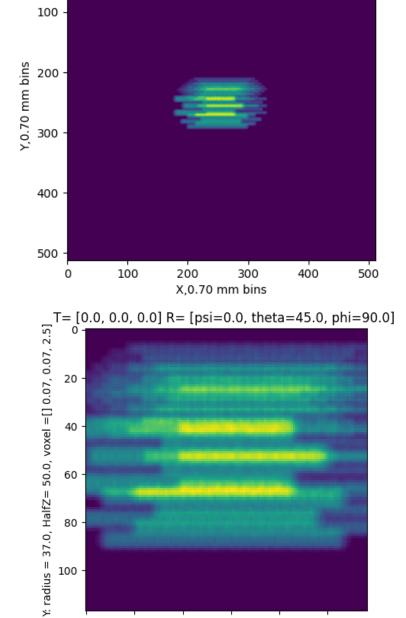












60

 $X: well_seps = (8.0, 6.0, 5.0, 4.0, 3.0, 2.0)$

80

100

T = [0.0, 0.0, 0.0] R = [psi = 0.0, theta = 45.0, phi = 90.0]

