RO notes on .h5 and .mx files in this folder and its subfolders: '/Users/rudolfo/Software/GitHub/BirTomo/SharedData/2025\_05/XylemA Experim&Simulation/Simulation Data'

The .h5 and .mx files were created using the Mathematica Notebooks BirefrObjectForwardProjApril2025.nb

**XylemAInitRandom1.h5**

object box {Z,Y,X}={35, 131, 131}, random birefringence pixel values are positive between 0.0 and 0.01, random optic axis values; InitialXylemRandom1.h5 data prepared in Section 'Preparing arbitrary object lists' of BirefrObjectForwardProjApril2025.nb; the Z-components of the optic axis vectors are all either zero or positive; data prepared by RO

Random values are in object box {35, 99, 99}, which was padded by {0, 16, 16} on each side, leading to object box {Z,Y,X}={35, 131, 131}.

**XylemACrop2Ss1InitRandom1.h5**

Initial random volume data for XylemACrop2…h5 volume, which is intended for reconstruction of light field images cropped from full XylemA data using ROI x512, y336, w1296, h1296; 1296/16=81. (See XylemAExperimDataNotes.docx)