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

**XylemACrop1Random.h5**

object box {Z,Y,X}={25, 151, 151}, random birefringence pixel values are positive between 0.0 and 1.4, random optic axis values; XylemACrop1Random.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; random values are in central object box {25, 111,111}, which was padded by {0, 20, 20} on each side, leading to object box {Z,Y,X}={25, 151, 151}; data prepared by RO.

**XylemACrop2Random.h5**

object box {Z,Y,X}={25, 121, 121}, random birefringence pixel values are positive between 0.0 and 1.4, random optic axis values; XylemACrop2Random.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; random values are in central object box {25, 81,81}, which was padded by {0, 20, 20} on each side, leading to object box {Z,Y,X}={25, 121, 121}.