20 July 2023, Rudolf

Running Streamlit on MacBook Pro

processing sheets: sheet1.h5, forward projecting using super sample 1 and 3

**sheet1.h5 -> sheetBir[radius=3.5, membrane thickness=1, Δn=0.01, 90°, 0°]**

**Optical settings:**

Number of microlenses: 9 or 5

Pixels per microlens: 17

Number of voxels per microlens (supersampling): 1 or 3

Magnification: 60

NA of objective: 1.2

Wavelength of light: 0.55 µm

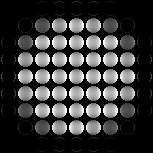
camera pixel size: 6.5 µm

refractive index of medium: oil n=1.35

**Forward simulation:**

Number of microlenses: 9; Number of voxels per microlens (supersample): 1

Streamlit retardance in center of central microlens Mathematica

 A black and white square with many squares

Description automatically generated

retardance 0.1972 rad

retardance 0.2095 rad

sheet1\_RetStreamSS1.tif sheet1\_RetMathSS1.tif

Number of microlenses: 5; Number of voxels per microlens (supersample): 3

Streamlit retardance in center of central microlens Mathematica

 A black and white square with white squares

Description automatically generated

retardance 0.0657 rad

retardance 0.2095 rad

sheet1\_RetStreamSS3.tif sheet1\_RetMathSS3.tif

TIFF files in objects/Sheets folder