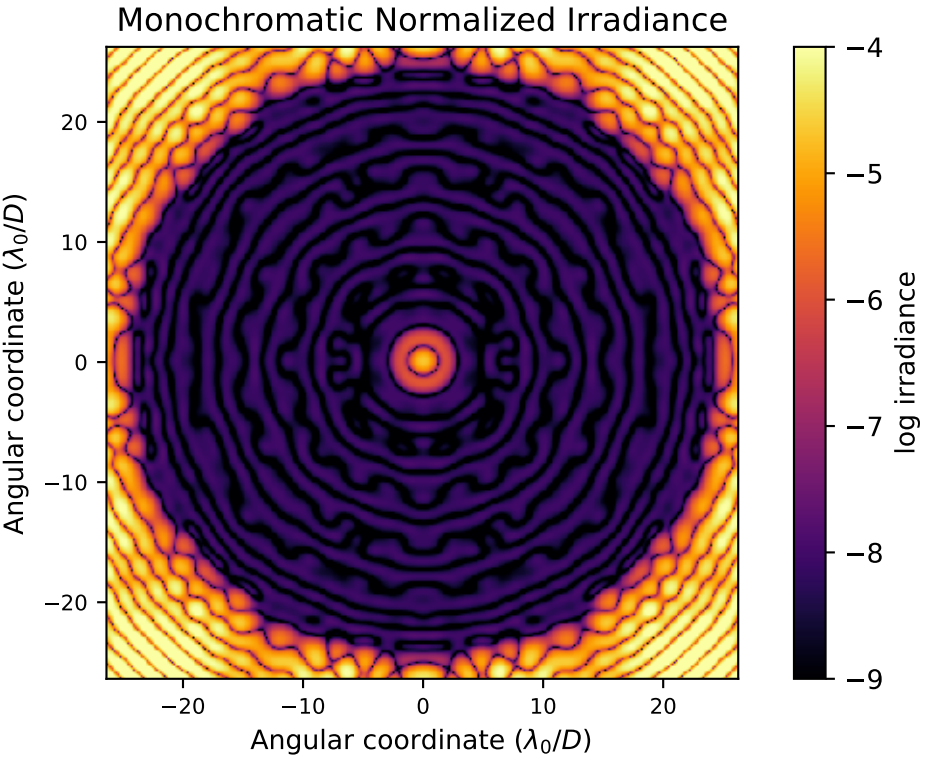


Figure 1 : *Monochromatic on − axis PSF in log irradiance, normalized to the peak irradiance value.*

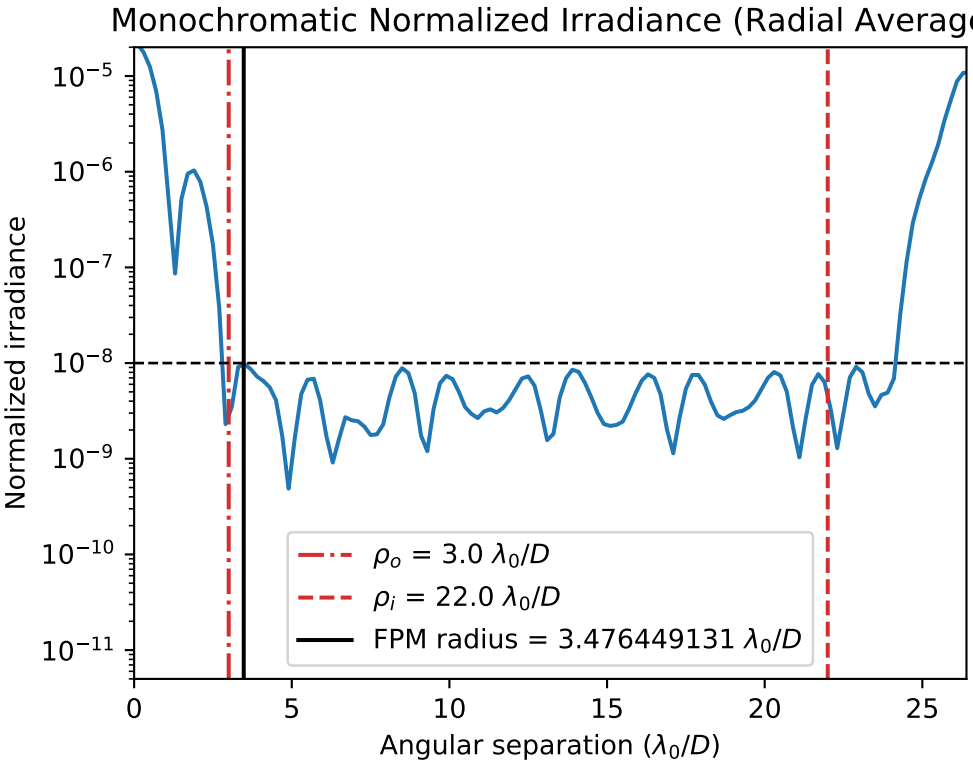
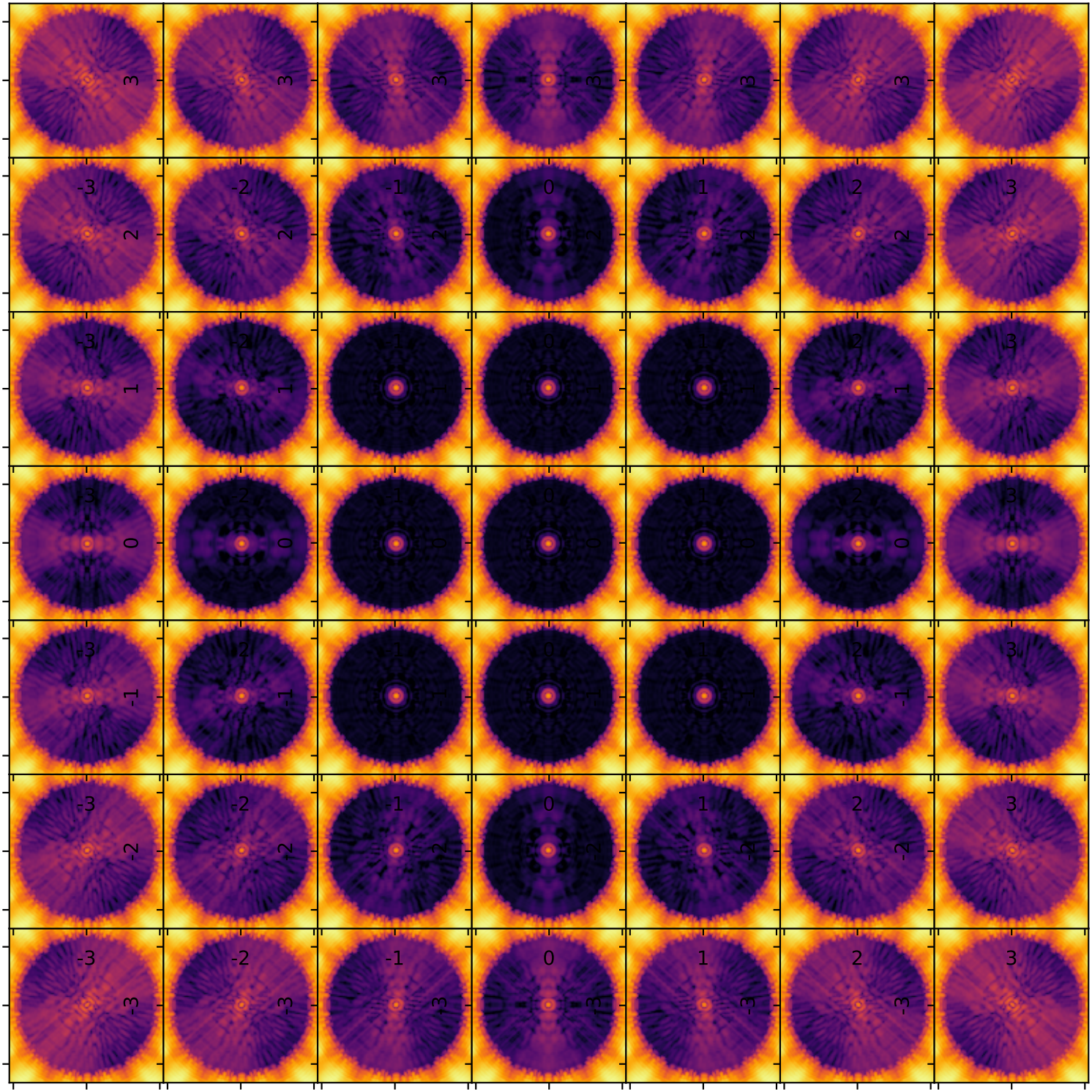


Figure 2: *Monochromatic on − axis PSF azimuthally averaged over angular seperations* 0.1-37.3 *λ/D, normalized to the peak irradiance. The vertical, solid black line at separation* 3.476449131 *λ/D marks the radius of the FPM occulting spot. The vertical, redlines at* 3.0 *and* 22.0 *λ/D respectively indicate the radii of the inner and outermost constraints applied during the apodizer optimization.*


3
-3 -2 -1 0 1 2 3
2
1
0
-1
-2
-3

APLC Analysis Summary

APLC design	2.51188643150958%
nPup	1168 x 1168 pixels
Oversampling (grey levels)	4
Telescope	GPI
Bandpass	2.51188643150958%
# wavelengths	3
FPM radius (grayscale)	3.476449131 λ/D
nFPM	1168 pixels
IWA — OWA	3.0—22.0 λ/D
Lyot stop alignment tolerance	1
# Lyot stops	9

Optimizer called with the following parameters:

- ▷ *Pupil file*: GPI/Primary_GPI_grey_oversamp04_symmetric_N1168.fits
- ▷ *Lyot stop file*: GPI/LS_GPI_080m12_03_grey_oversamp04_notabs_N1168.fits

Analysis Summary

Apodizer &
Telescope Aperture

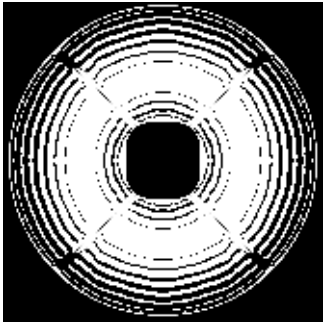


Image plane

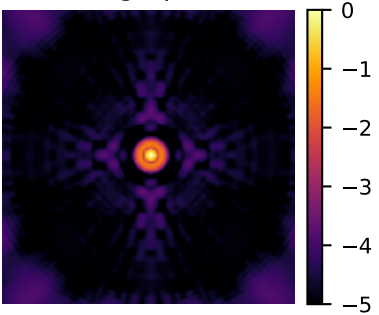
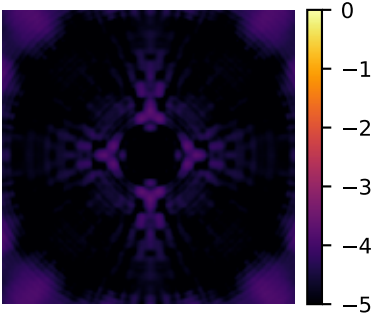
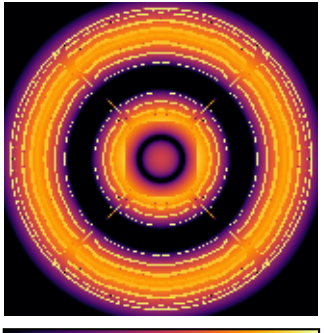


Image plane
w/FPM



Lyot plane



Lyot plane
w/lyot stop

Final image plane