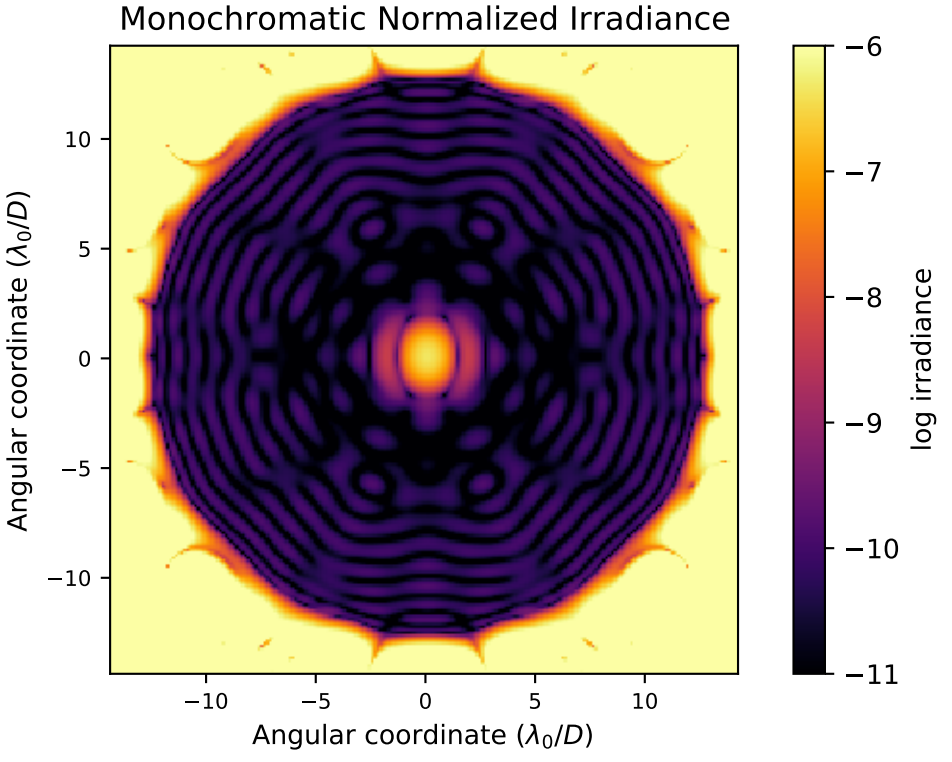


Figure 1 : *Monochromatic on − axis PSF in log irradiance, normalized to the peak irradiance value.*

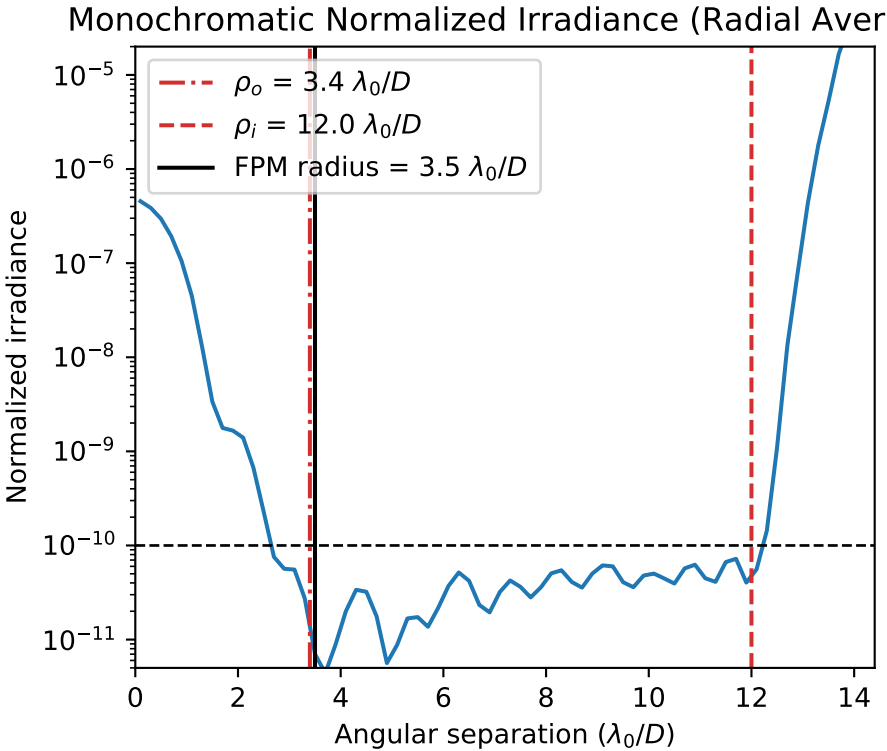
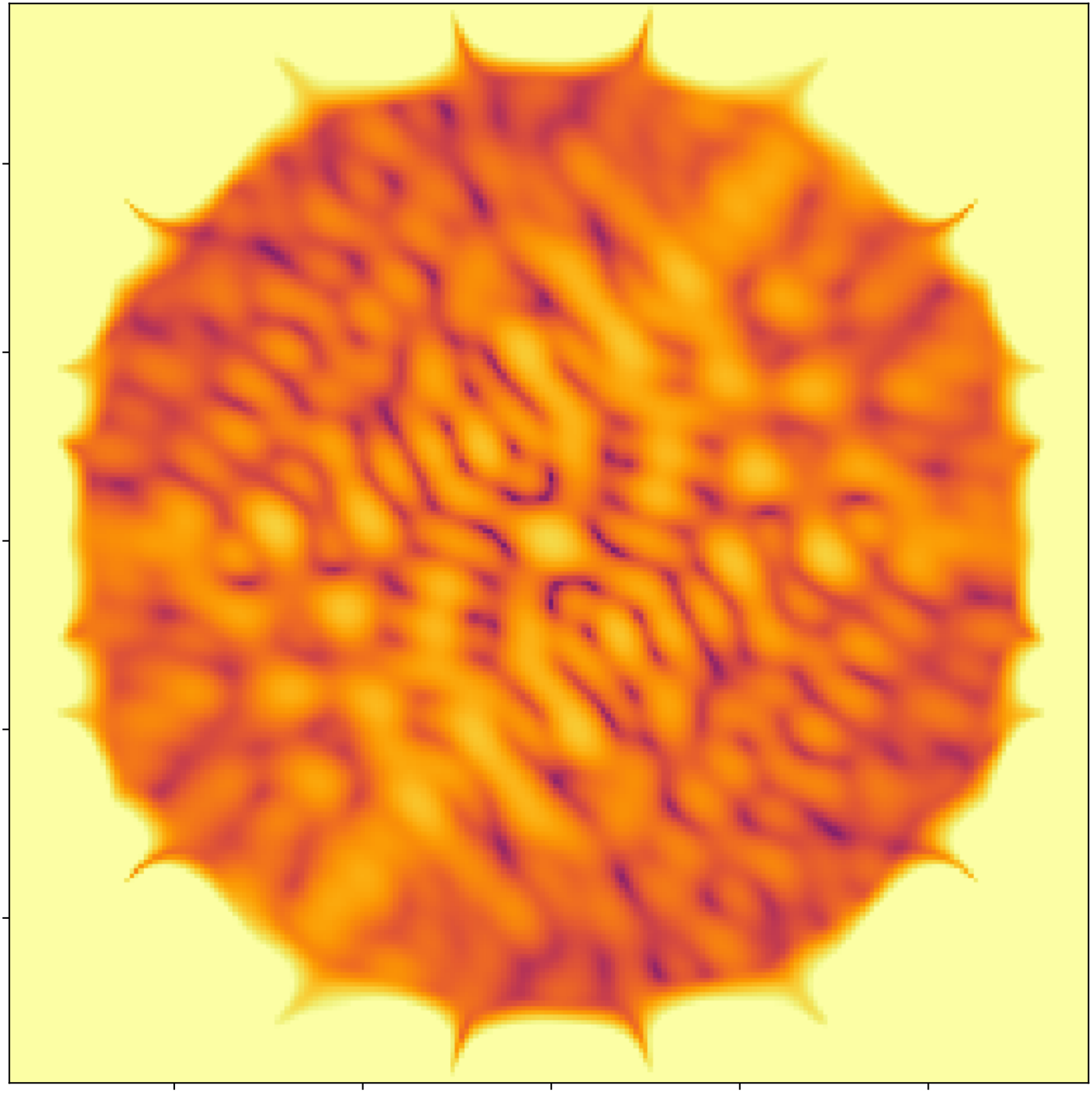


Figure 2: *Monochromatic on − axis PSF azimuthally averaged over angular operations* 0.1-20.300000000000004 *λ/D, normalized to the peak irradiance. The vertic solid black line at separation* 3.5 *λ/D marks the radius of the FPM occulting spot. The vertical, redlines at* 3.4 *and* 12.0 *λ/D respectively indicate the radii of the inner and outermost constraints applied during the apodizer optimization.*

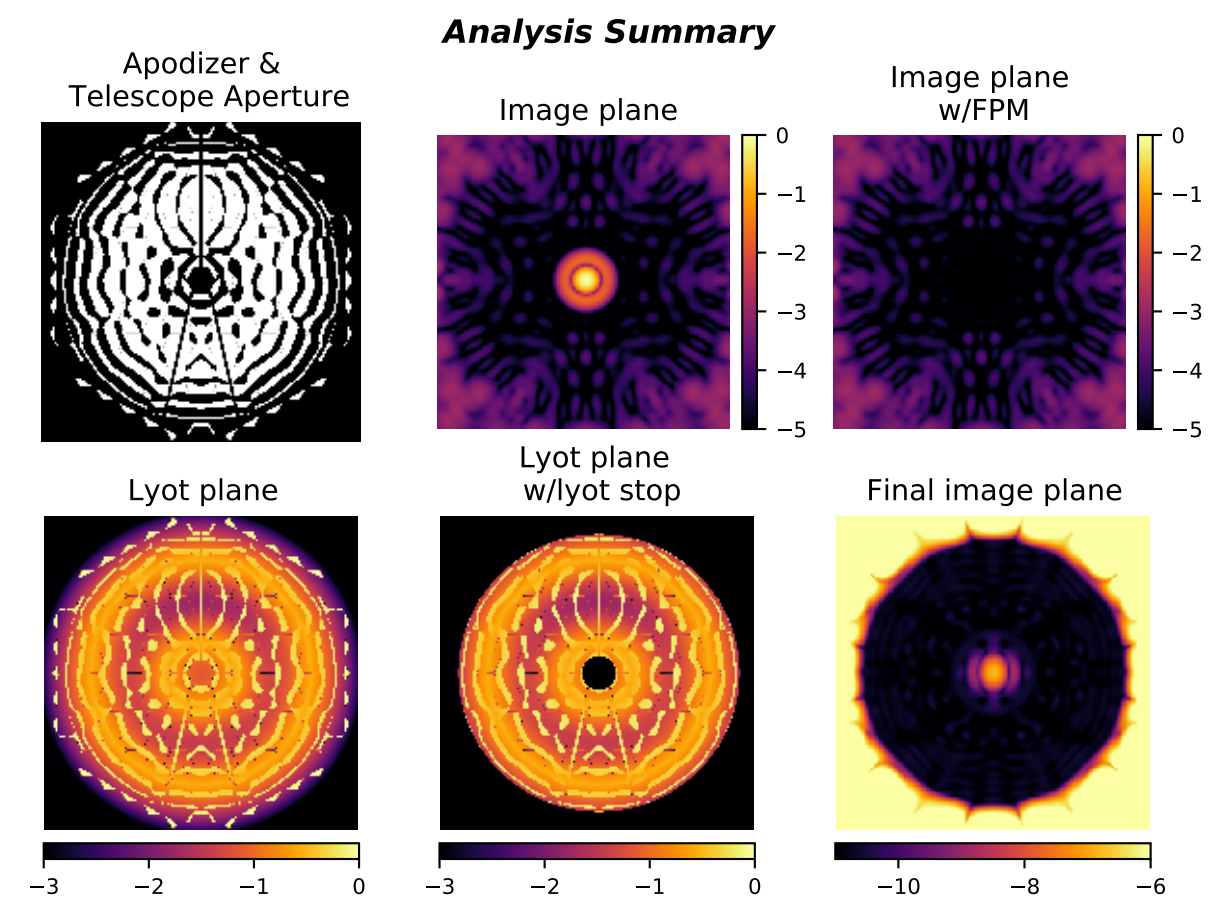


APLC Analysis Summary

APLC design	1.5848931924611136%
nPup	1000 x 1000 pixels
Gap padding (multiplicative)	1
Oversampling (grey levels)	4
Telescope	LUVOIR
Lyot stop inner diamater (% of inscribed circle)	0.12
Lyot stop outer diameter (% of inscribed circle)	0.982
Bandpass	1.5848931924611136%
# wavelengths	5
FPM radius (grayscale)	3.5 λ/D
nFPM	150 pixels
IWA — OWA	3.4—12.0 λ/D

Optimizer called with the following parameters:

- ▷ *Pupil file*: LUVOIR/TelAp_LUVOIR_gap_pad01_bw_ovsamp04_N1000.fits
- ▷ *Lyot stop file*: LUVOIR/LS_LUVOIR_ID0120_OD0982_no_struts_gy_ovsamp4_N1000.fits


Analysis Summary
Apodizer &
Telescope Aperture
Image plane
Image plane
w/FPM
0
−1
−2
−3
−4
−5
Lyot plane
Lyot plane
w/lyot stop
Final image plane
−3
−2
−1
0
−10
−8
−6