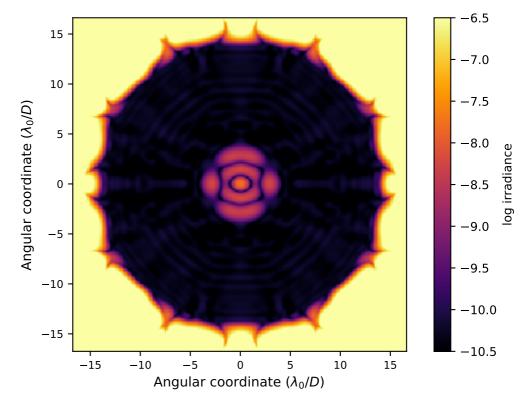
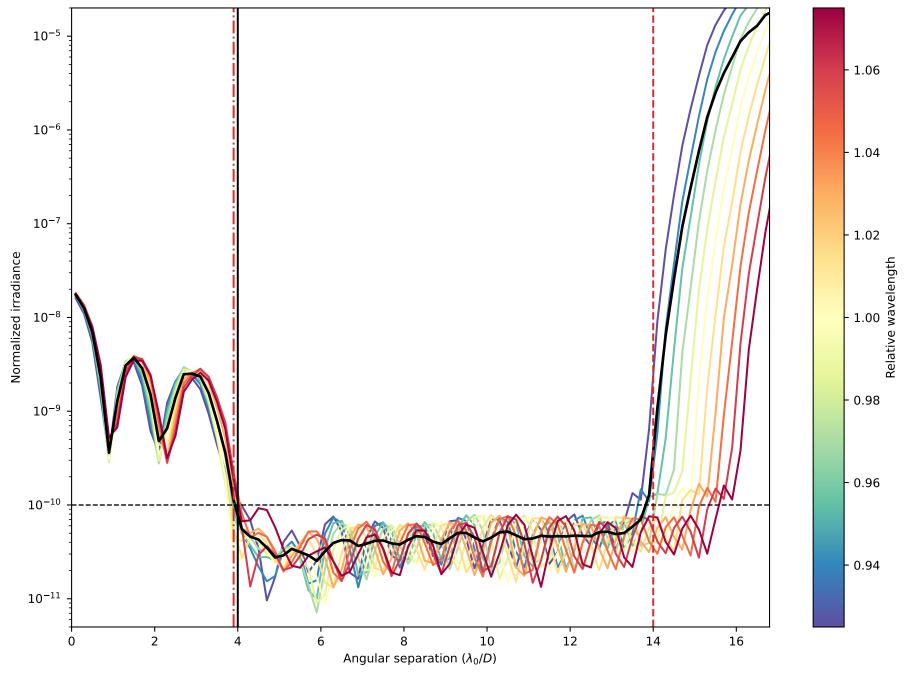
APLC Design Summary

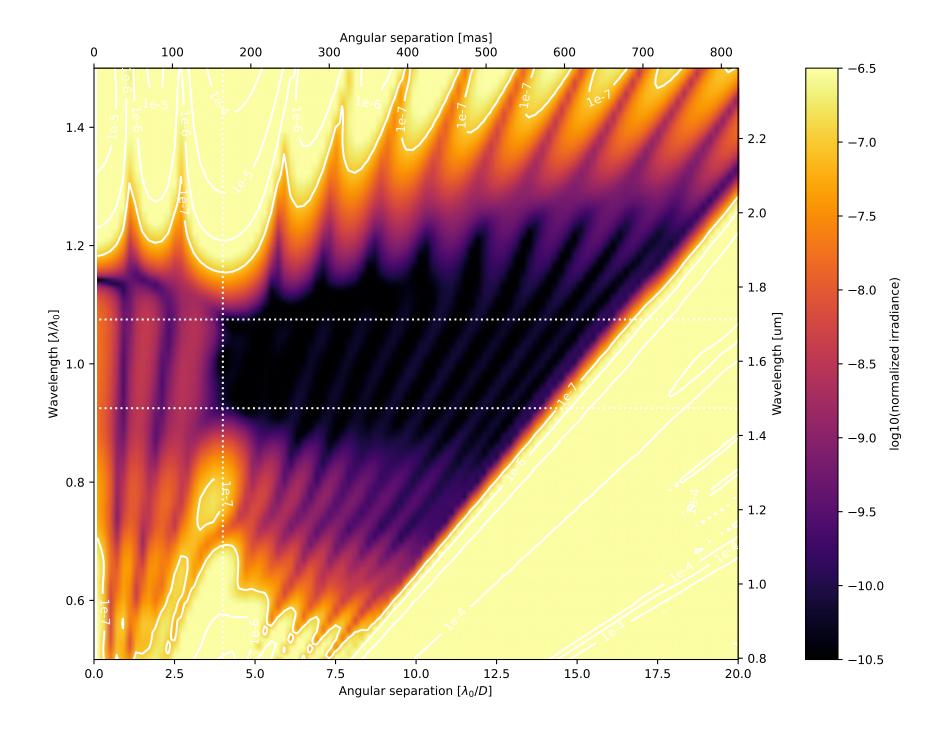
,	
Instrument	USORT
nPup	128 x 128 pixels
Coronagraphic throughput (transmitted energy)	0.4101
Core throughput (encircled energy)	0.326
Lyot stop inner diamater (% of inscribed circle)	0.0
Lyot stop outer diameter (% of inscribed circle)	0.99
Bandpass	15.0%
# wavelengths	5
FPM radius (grayscale)	4.θ λ/D
пЕРМ	15θ pixels
IWA — OWA	3.9—14.0 \(\lambda/D \)
Contrast constraint	10-10
Lyot Stop alignment tolerance	θ pixels
Input Files:	
▷ Pupil file: USORT/TelAp_USORT_offaxis_ovsamp16_N0128.fits	

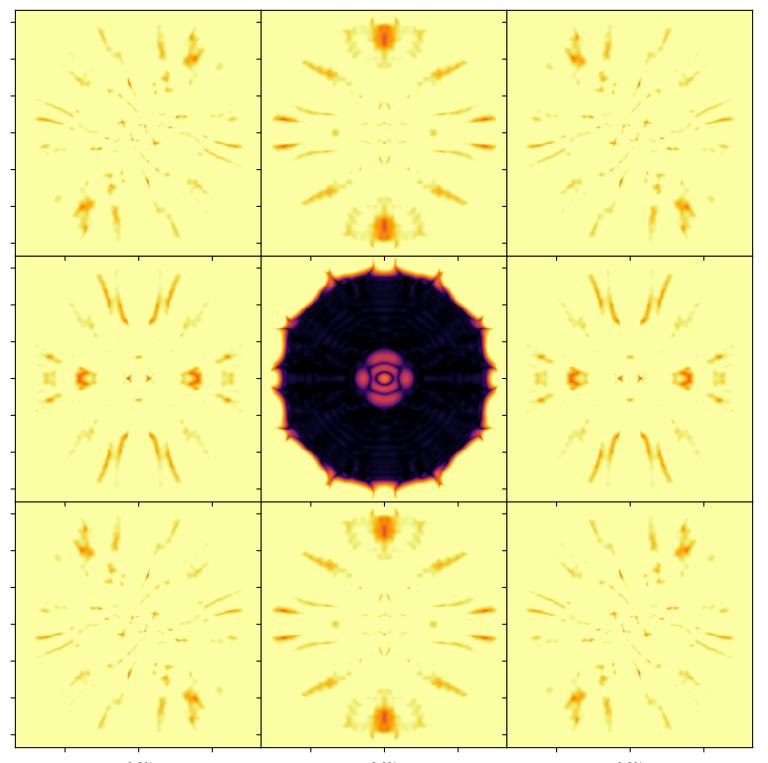


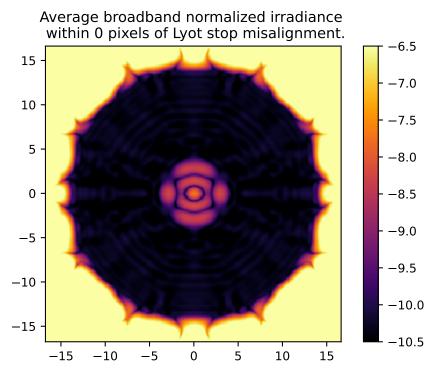
On – axis PSF in log irradiance, normalized to the peak irradiance value.



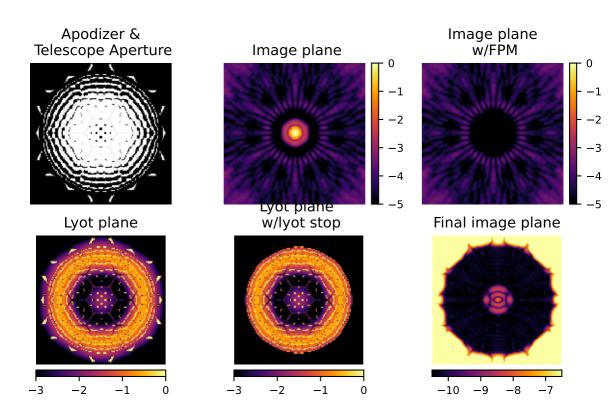
Radial intensity profile for the broadband APLC design at 11 simulated wavelengthscentered around λ_0/D and equally spatially sampled over the 15.0% bandpass. The black curve shows the average intensity across the 11 wavelength samples. The dashed red vertical lines delimitthe high-contrast dark zone (between 3.9 and 14.0 λ_0/D). The blue dotted line delimits the FPM radius, set to 4.0 λ_0/D .

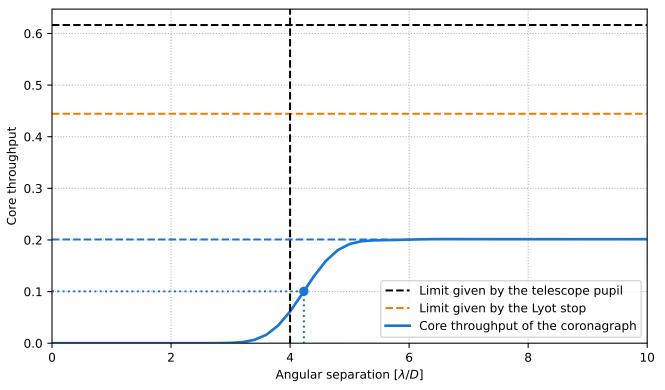






Analysis Summary





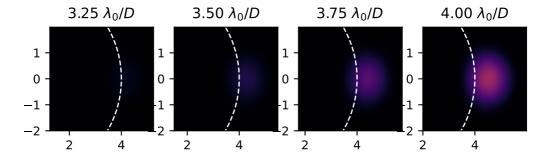
Pupil core throughput: Lyot stop core throughput: Maximum core throughput: w.r.t. pupil core throughput:

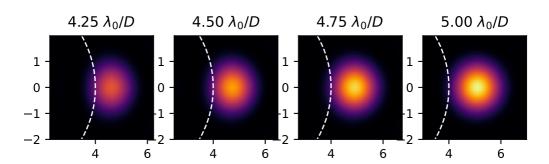
Maximum core throughput w.r.t. pupil core throughput:

Maximum core throughput w.r.t. Lyot stop core throughput:

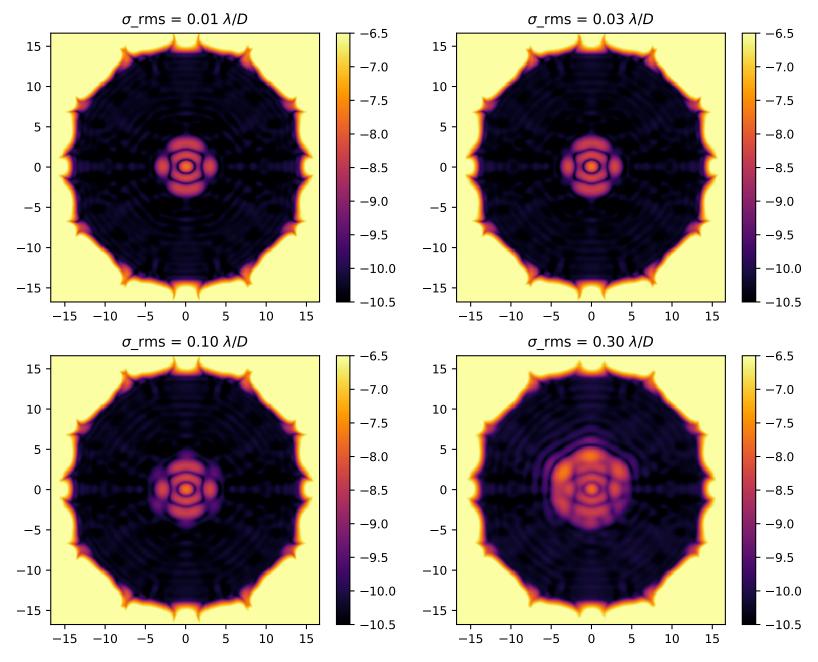
Inner working angle:

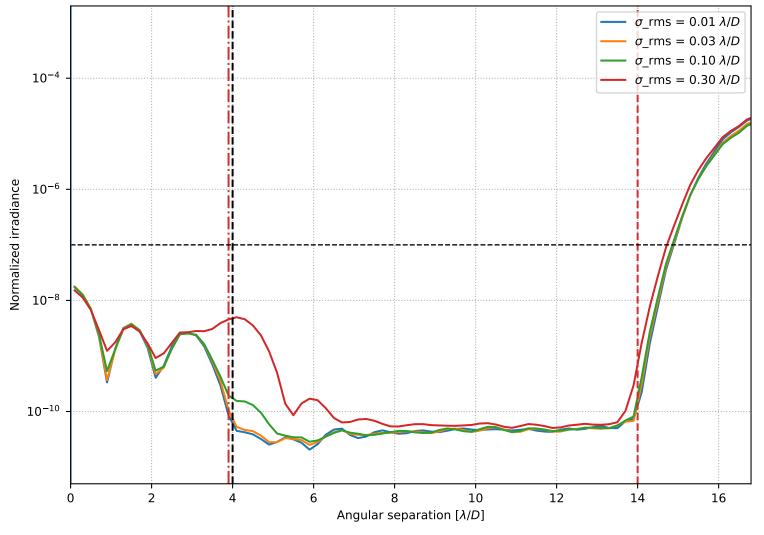
0.6163835963822561 0.444429515374317 0.20093285520592627 0.3259867011147971 0.4521141109106857 $4.231657677579062 \lambda_0/D$





Broadband normalized irradiance for four representative levels of residual pointing jitter.





Azimuthally averaged raw contrast for four representative levels of rms residual pointing jitter.