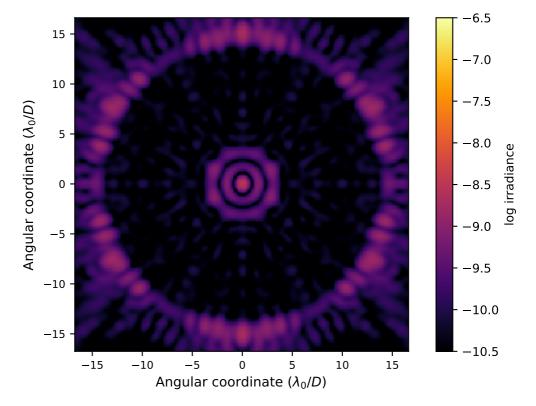
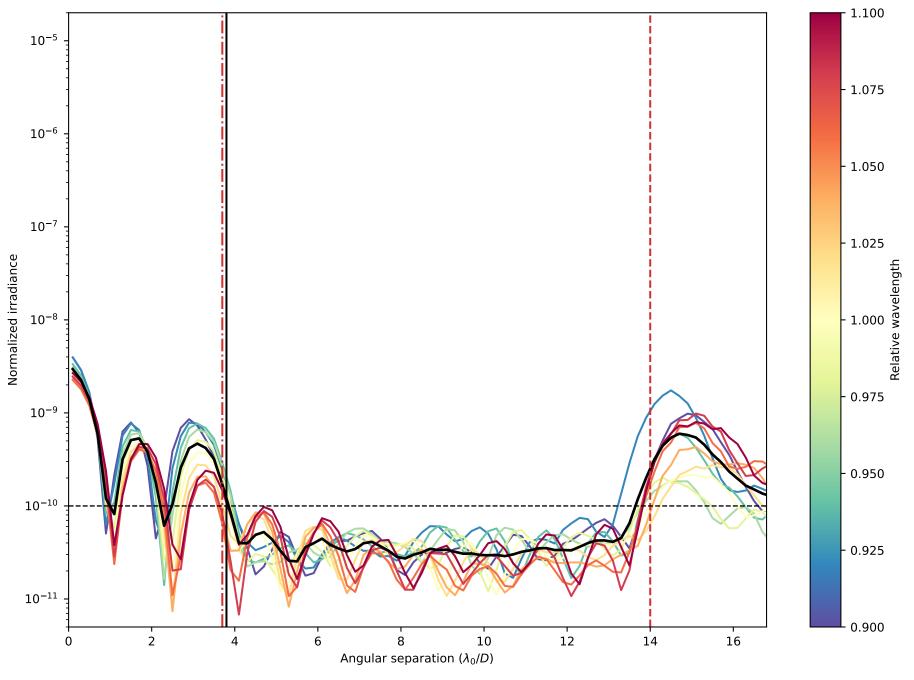
APLC Design Summary

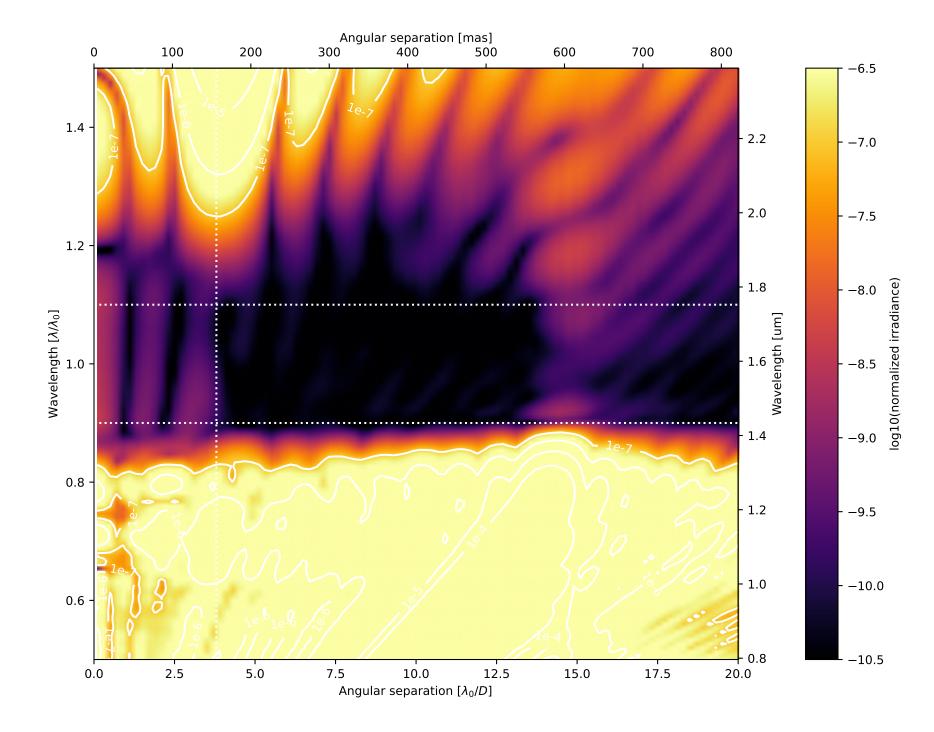
Instrument	USORT
пРир	128 x 128 pixels
Coronagraphic throughput (transmitted energy)	0.0938
Core throughput (encircled energy)	0.0819
Lyot stop inner diamater (% of inscribed circle)	0.0
Lyot stop outer diameter (% of inscribed circle)	0.99
Bandpass	20.0%
# wavelengths	5
FPM radius (grayscale)	3.8 \(\lambda / D \)
пЕРМ	150 pixels
IWA — OWA	3.7—14.0 \(\lambda/D \)
Contrast constraint	10-10
Lyot Stop alignment tolerance	0 pixels
Input Files :	
▷ Pupil file: USORT/TelAp_USORT_offaxis_ovsamp16_N0128.fits	
> Lyot stop file: USORT/LS_USORT_hex_ID0000_OD0990_ovsamp16_N0128.fits	

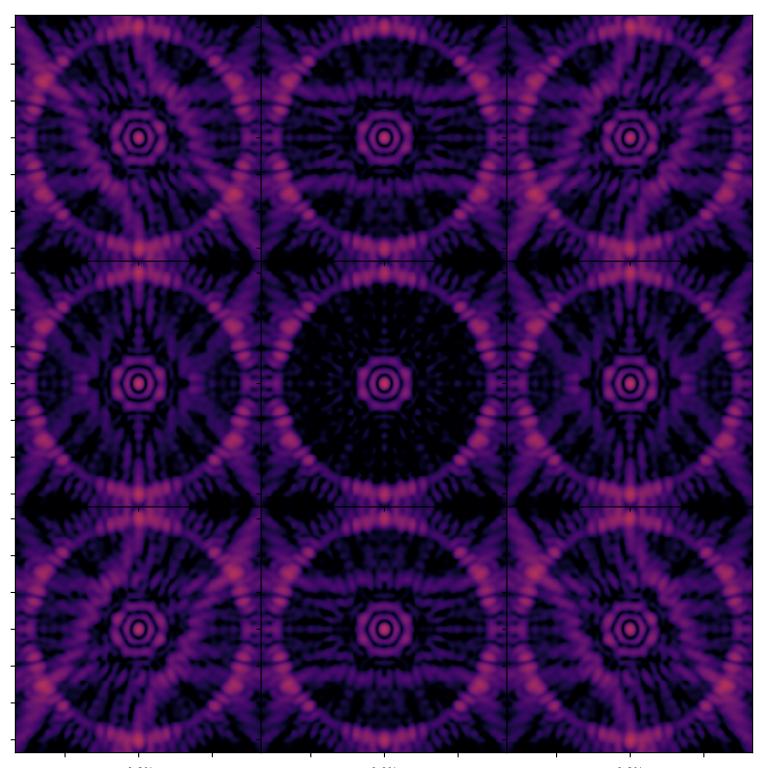


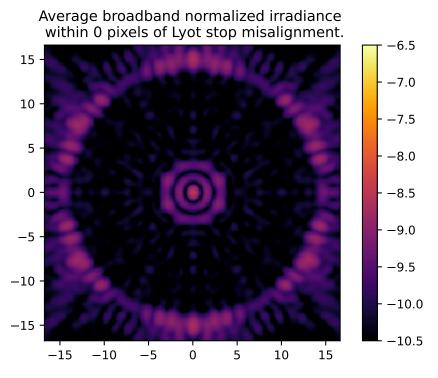
On – axis PSF in log irradiance, normalized to the peak irradiance value.



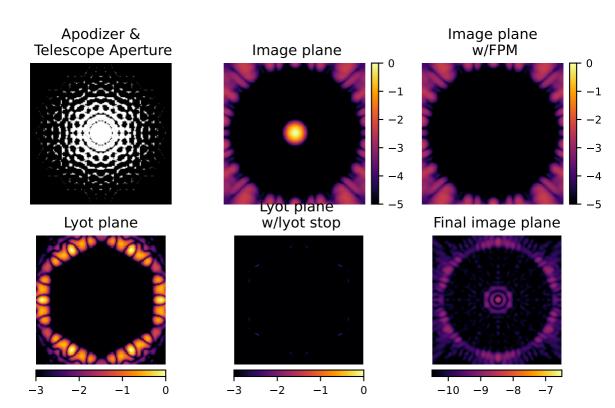
Radial intensity profile for the broadband APLC design at 11 simulated wavelengthscentered around λ_0/D and equally spatially sampled over the 20.0% bandpass. The black curve shows the average intensity across the 11 wavelength samples. The dashed red vertical lines delimitthe high-contrast dark zone (between 3.7 and 14.0 λ_0/D). The blue dotted line delimits the FPM radius, set to 3.8 λ_0/D .

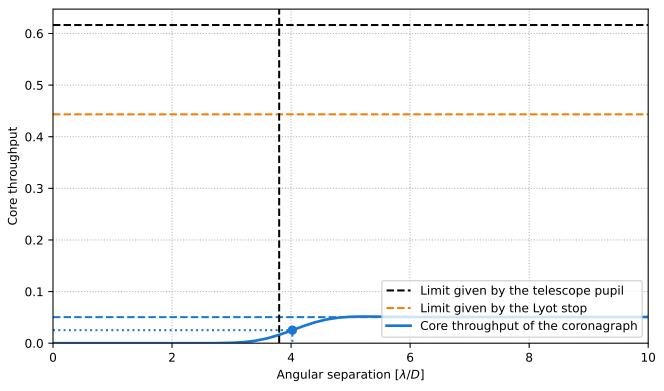






Analysis Summary





Pupil core throughput:

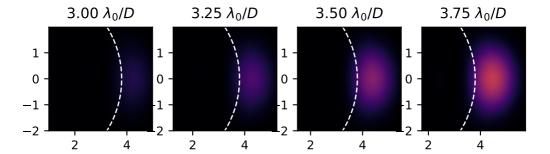
Lyot stop core throughput:

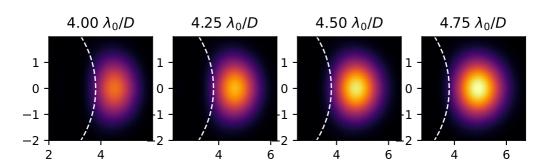
Maximum core throughput w.r.t. pupil core throughput:

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

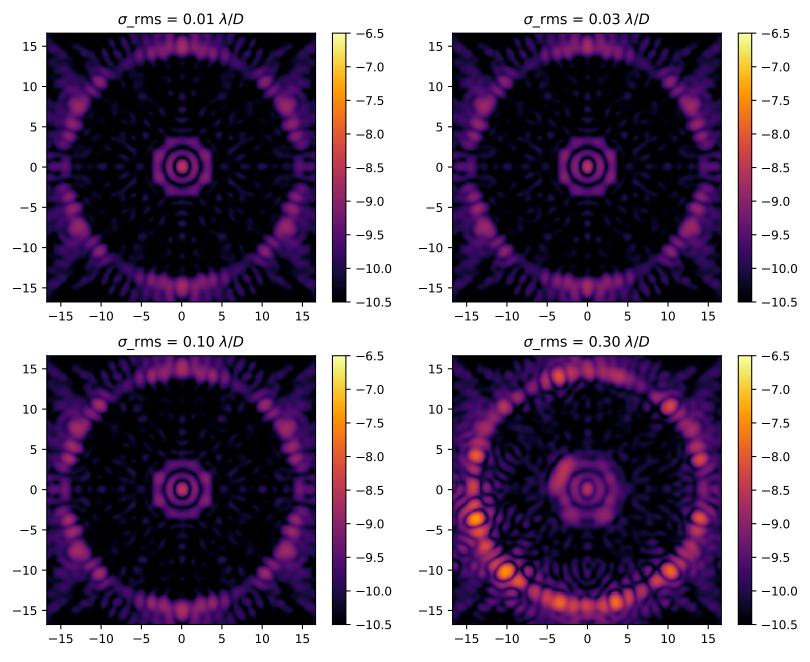
Inner working angle:

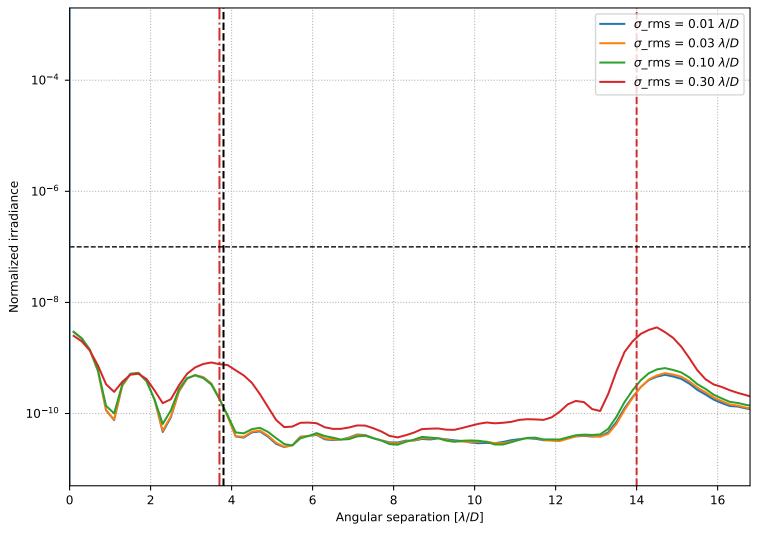
0.6163835963822561 0.44338273489435265 0.05049537662819403 0.08192199942465511 0.11388665514958732 $4.021884231126031 \lambda_0/D$





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





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