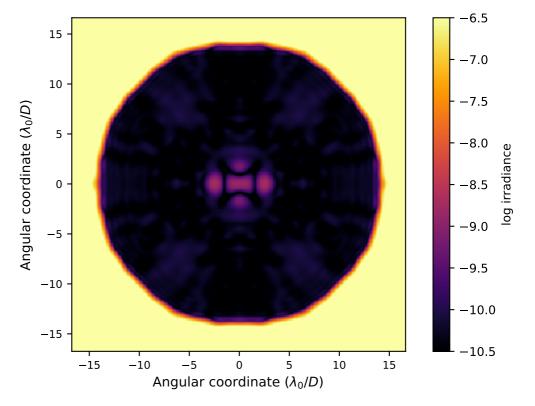
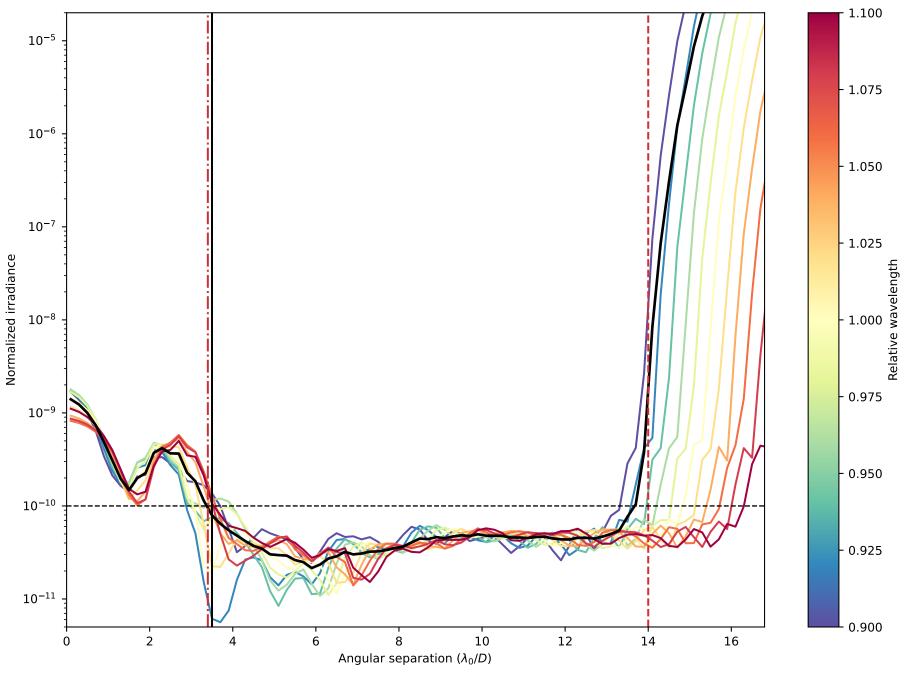
APLC Design Summary

Instrument	USORT
nPup	512 x 512 pixels
Coronagraphic throughput (transmitted energy)	0.1427
Core throughput (encircled energy)	0.1205
Lyot stop inner diamater (% of inscribed circle)	θ.θ
Lyot stop outer diameter (% of inscribed circle)	θ.99
Bandpass	20.0%
# wavelengths	5
FPM radius (grayscale)	3.5 λ/D
пЕРМ	150 pixels
IWA — OWA	3.4—14.0 λ/D
Contrast constraint	10-10
Lyot Stop alignment tolerance	1 pixels
Input Files :	
▷ Pupil file: USORT/TelAp_USORT_offaxis_ovsamp16_N0512.fits	

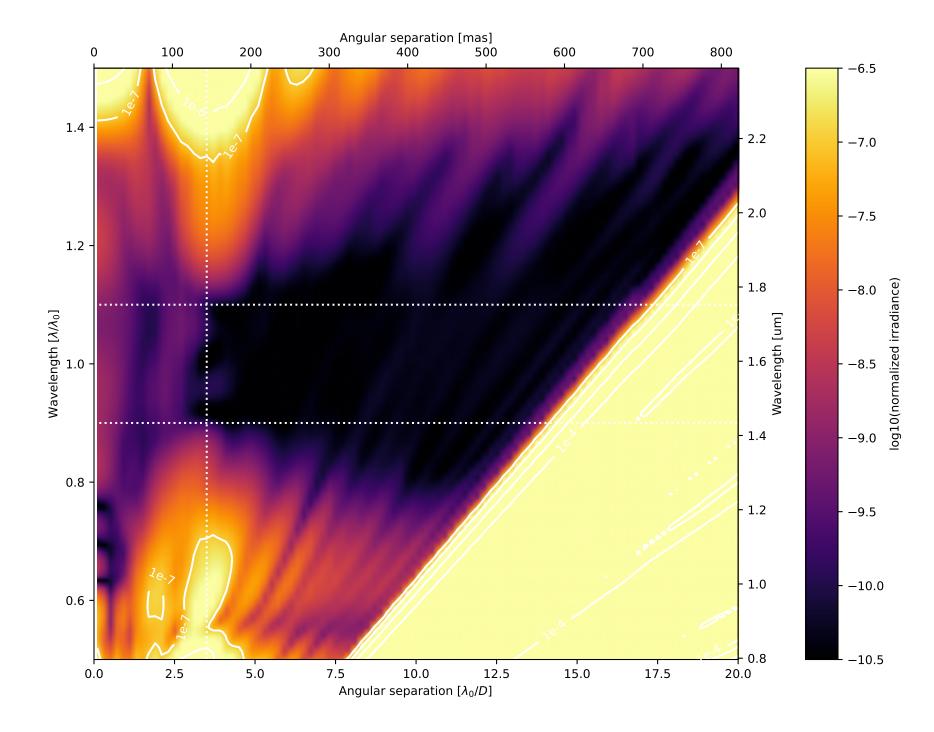
D 08_USORT_N512_FPM350M0150_IWA0340_OWA01400_C10_BW20_Nlam5_LS_ID_ID00_ODOD09_ls_0_ovsamp16_N.fits

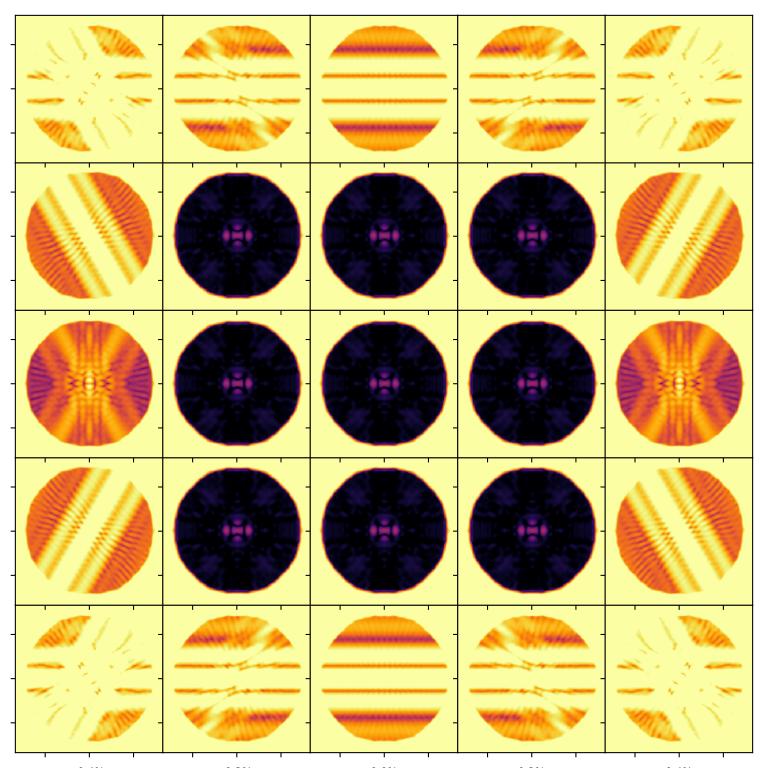


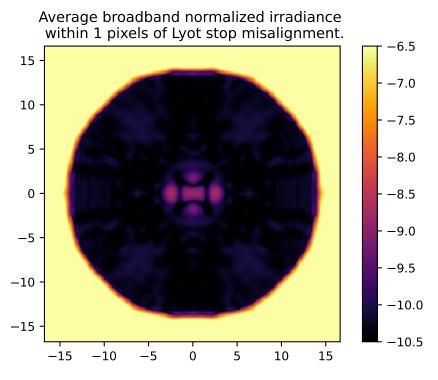
On – axis PSF in log irradiance, normalized to the peak irradiance value.



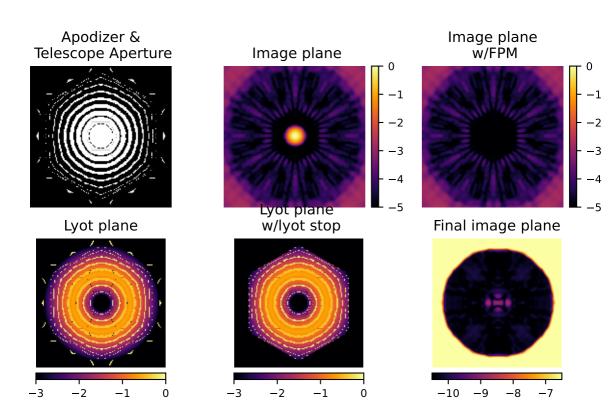
Radial intensity profile for the broadband APLC design at 11 simulated wavelengthscentered around λ_0/D and equally spatially sampled over the 20.0% bandpass. The black curve shows the average intensity across the 11 wavelength samples. The dashed red vertical lines delimitthe high-contrast dark zone (between 3.4 and 14.0 λ_0/D). The blue dotted line delimits the FPM radius, set to 3.5 λ_0/D .

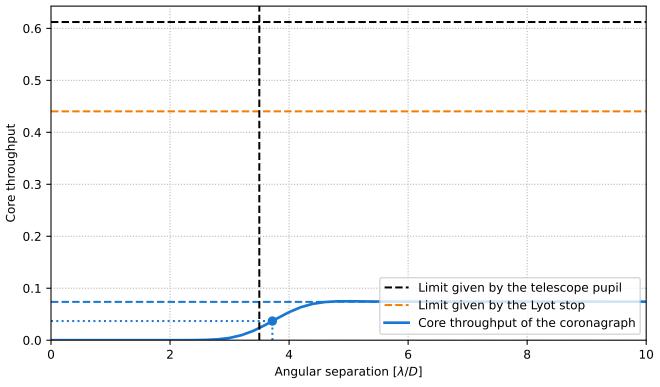






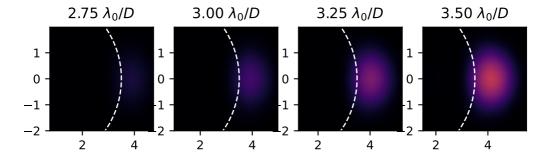
Analysis Summary

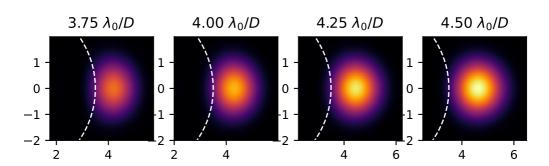




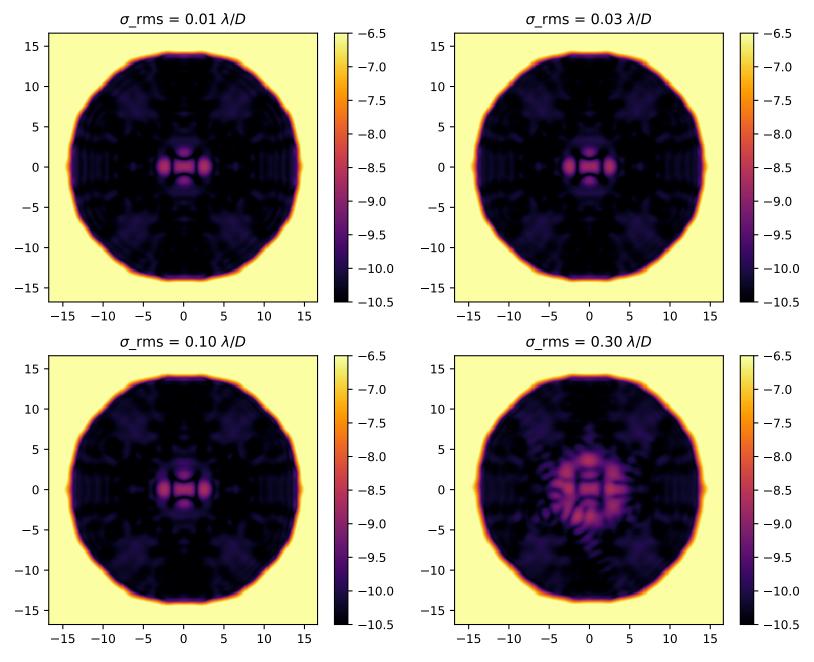
Pupil core throughput:
Lyot stop core throughput:
Maximum core throughput:
Maximum core throughput w.r.t. pupil core throughput:
Maximum core throughput w.r.t. Lyot stop core throughput:
Inner working angle:

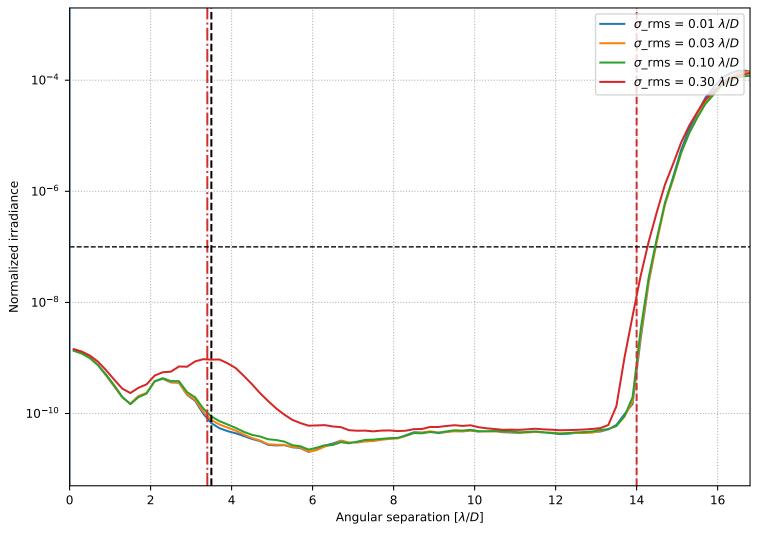
0.6122241018617949 0.44033728663207494 0.07374969106581304 0.12046192046594974 0.1674845471976458 $3.7196322746762287 <math>\lambda_0/D$





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





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