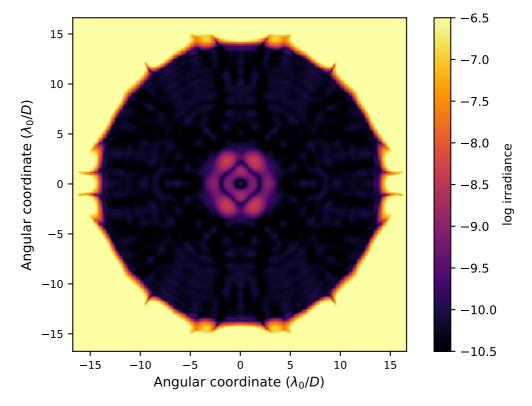
## APLC Design Summary

 $\qquad \qquad \triangleright \ 08\_USORT\_N128\_FPM380M0150\_IWA0370\_OWA01400\_C10\_BW20\_Nlam5\_LS\_ID\_ID00\_ODOD09\_ls\_0\_ovsamp16\_N.fits$ 

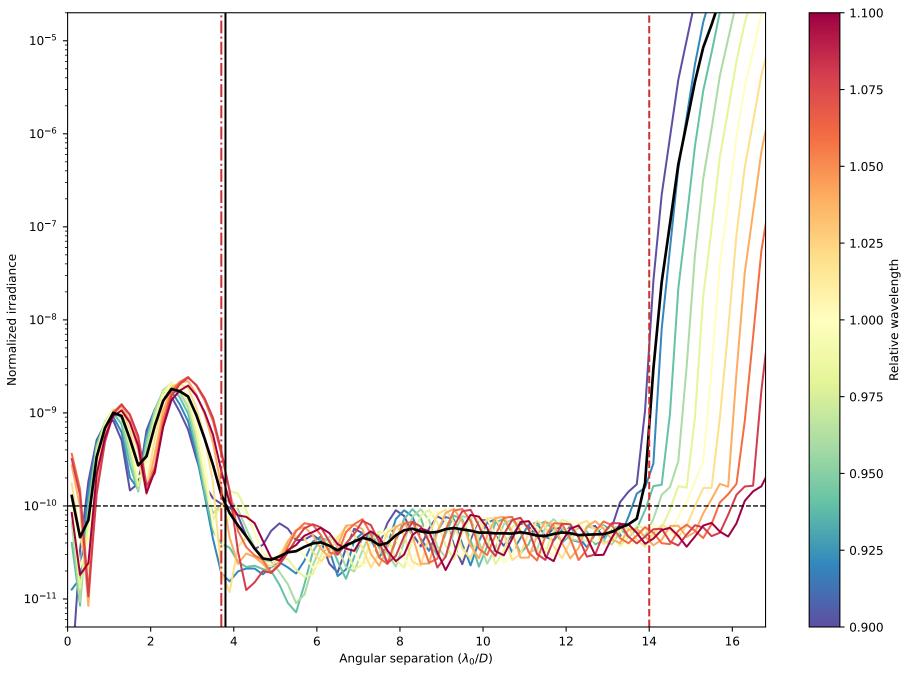
Solution File:

USORT
128 x 128 pixels
0.1871
0.1554
θ.θ
0.99
20.0%
5
3.8 \(\lambda/D\)
150 pixels
3.7—14.0 \( \lambda \/ D
10-10
θ pixels
0 pixels
0 pixels

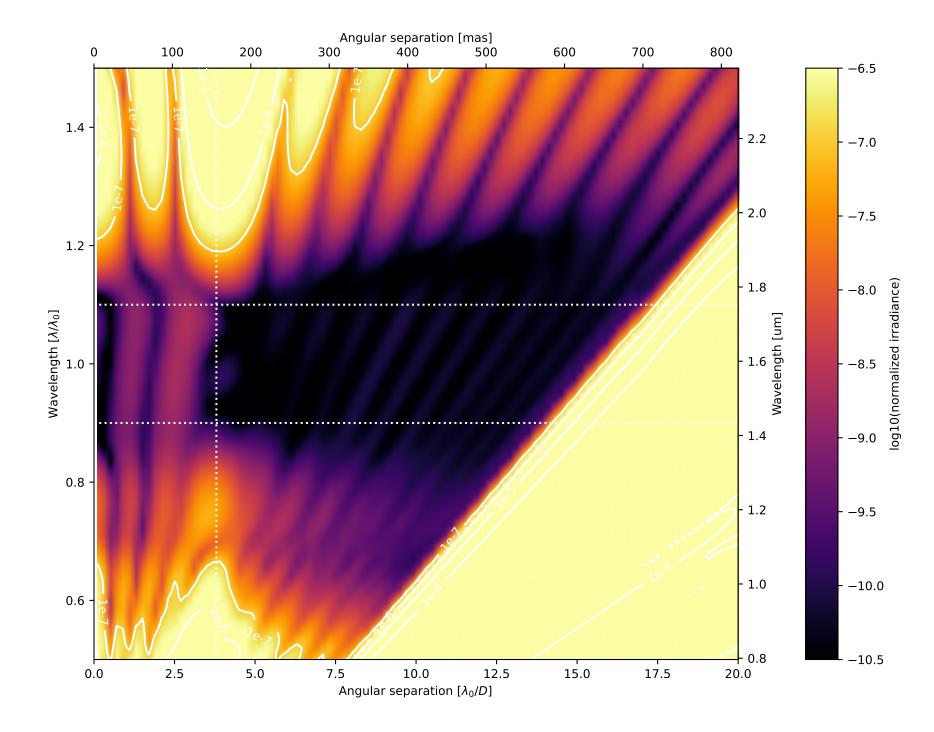
Fri Oct 27 18:27:05 2023

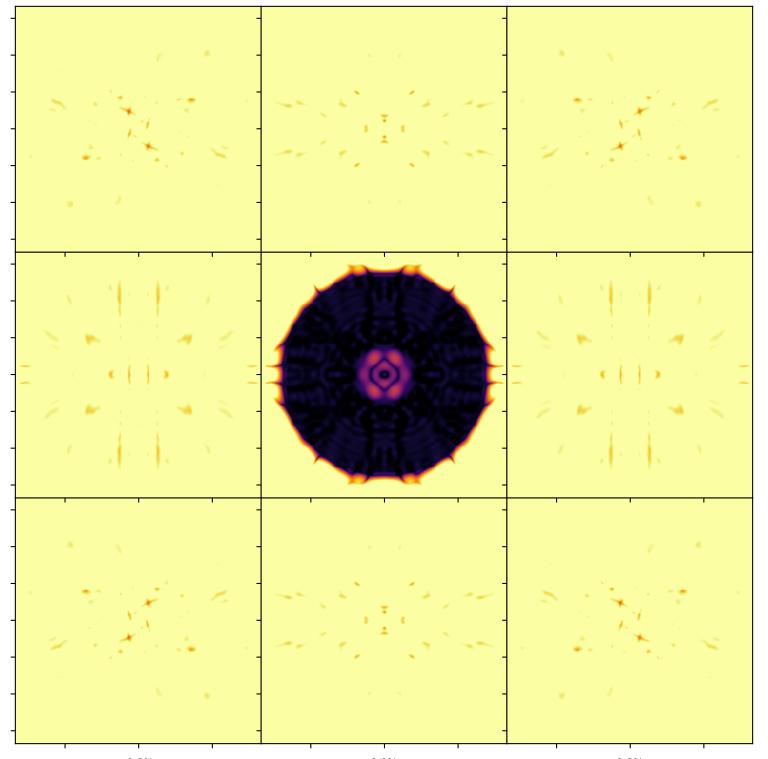


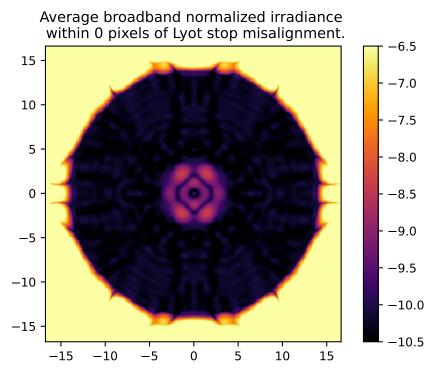
On – axis PSF in log irradiance, normalized to the peak irradiance value.



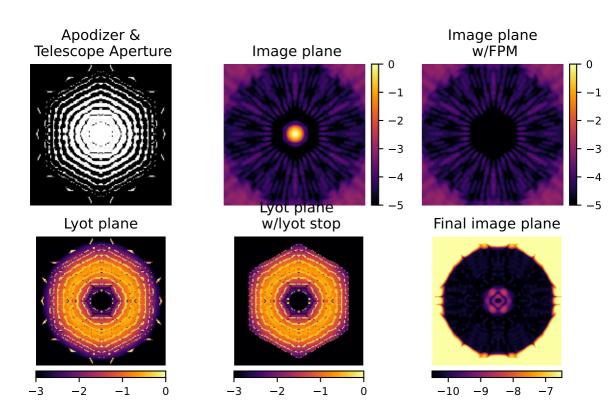
Radial intensity profile for the broadband APLC design at 11 simulated wavelengthscentered around  $\lambda_0/D$  and equally spatially sampled over the 20.0% bandpass. The black curve shows the average intensity across the 11 wavelength samples. The dashed red vertical lines delimitthe high-contrast dark zone (between 3.7 and 14.0  $\lambda_0/D$ ). The blue dotted line delimits the FPM radius, set to 3.8  $\lambda_0/D$ .

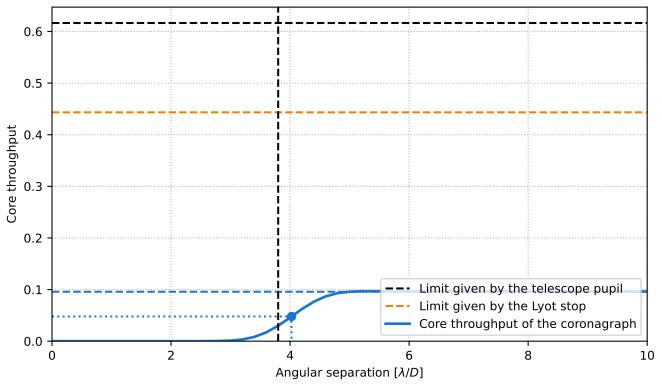






## **Analysis Summary**



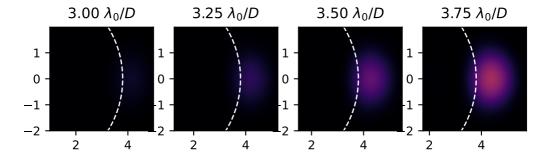


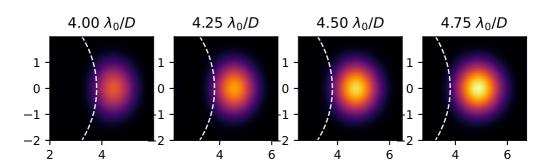
Pupil core throughput: Lyot stop core throughput: Maximum core throughput: Maximum core throughput w.r.t. pupil core throughput:

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

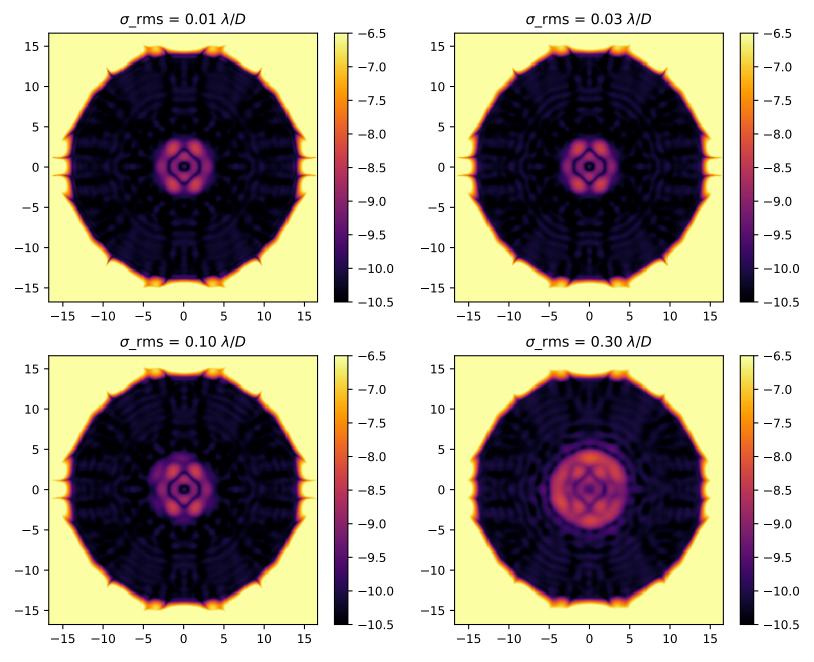
Inner working angle:

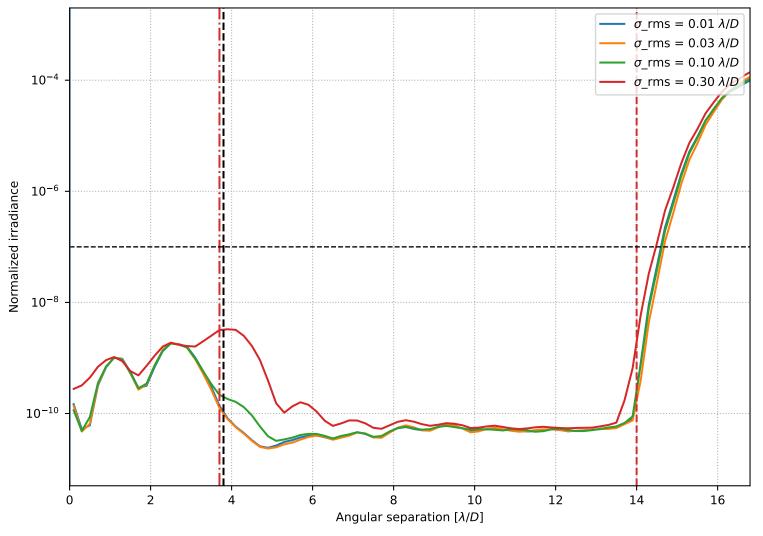
0.6163835963822561 0.44338273489435265 0.09580314881215592 0.15542780400785144 0.2160732506532612  $4.024596756355615 \lambda_0/D$ 





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





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