QACITSModel parameters for the Hale telescope

Entrance pupil

outer diam inner diam

Telescope 5,093 1,829 m **PHARO** 16,88 6,06 mm 35,9% 100

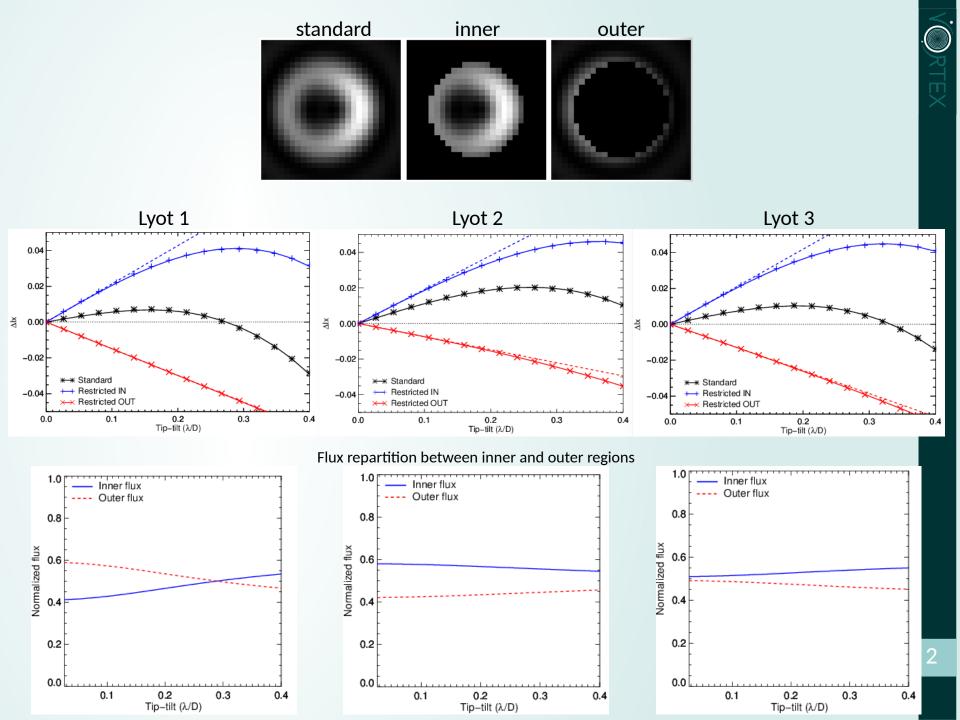
Lyot pupil dimensions

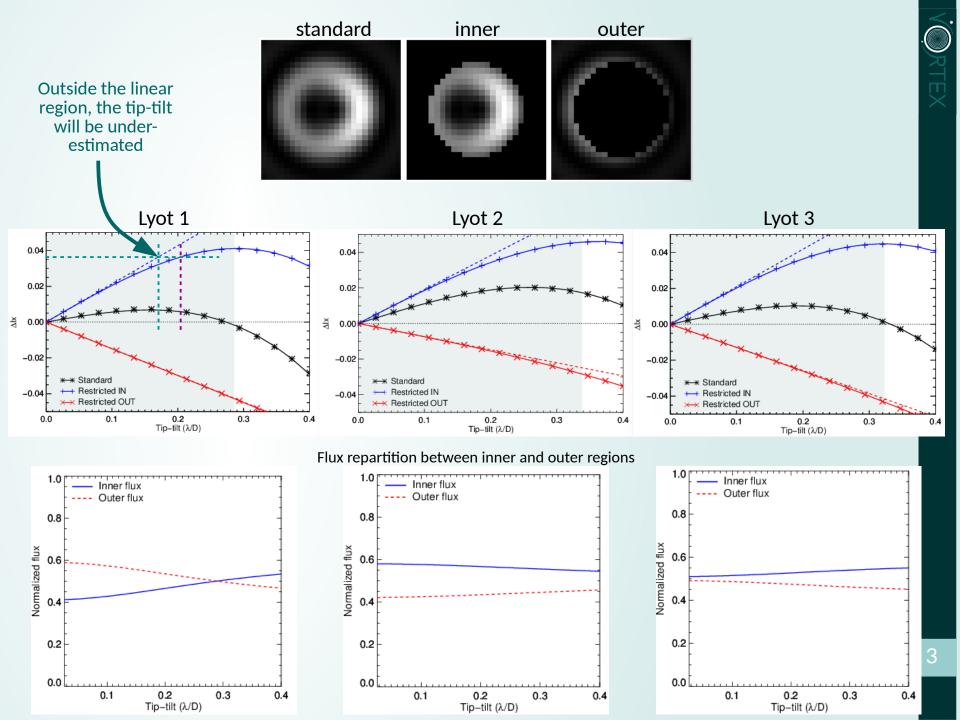
outer diam inner diam

16,5 6,1 mm Lyot 1 Lyot 2 13,2 7,3 mm Lyot 3 6,7 mm 15

$$\Delta I_x = \beta T^3 + \gamma T$$

		Model parameter values						
	entrance pupil diameter		Standard area		Inner area		Outer area	
	outer diam inne	er diam	β	γ	β	γ	β	γ
Lyot 1	97,7	36,1	0,86	-0,06	0,84	-0,21	0,01	0,14
Lyot 2	78,2	43,2	0,58	-0,12	0,49	-0,19	0,09	0,07
Lyot 3	88,9	39,7	0,72	-0,08	0,67	-0,21	0,05	0,13
	Lyot 2	entrance pupil douter diam innection from the large state of the large	Lyot 1 97,7 36,1 Lyot 2 78,2 43,2	entrance pupil diameter Standard a outer diam inner diam β Lyot 1 97,7 36,1 0,86 Lyot 2 78,2 43,2 0,58	entrance pupil diameter Standard area outer diam inner diam β γ Lyot 1 97,7 36,1 0,86 -0,06 Lyot 2 78,2 43,2 0,58 -0,12	entrance pupil diameter Standard area Inner are outer diam inner diam β γ β Lyot 1 97,7 36,1 0,86 -0,06 0,84 Lyot 2 78,2 43,2 0,58 -0,12 0,49	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

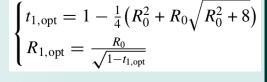


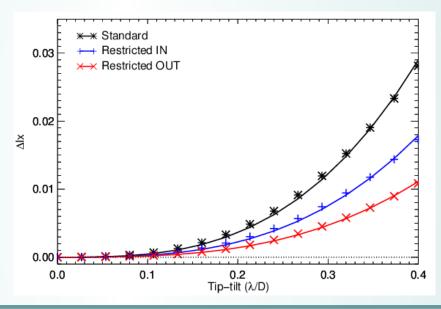


QACITS

Model parameters for the Hale telescope – with RAVC

I have made the assumption that the ring apodizer was optimized in throughput With r0 = $36\% \rightarrow r1 = 67\%$ (T=71%)





Model

$$\Delta I_x = \beta T^3 + \gamma T$$

We should get a model similar to the one without central obstruction \rightarrow we can use the whole image (standard mode)

	Dimensions in % entrance pupil di		Standard area		
	outer diam inne	r diam	β	γ	
Lyot 1	97,7	66,9	0,55	0,004	
Lyot 2	78,2	66,9	0,37	0,004	
Lyot 3	88,9	66,9	0,42	0,003	