

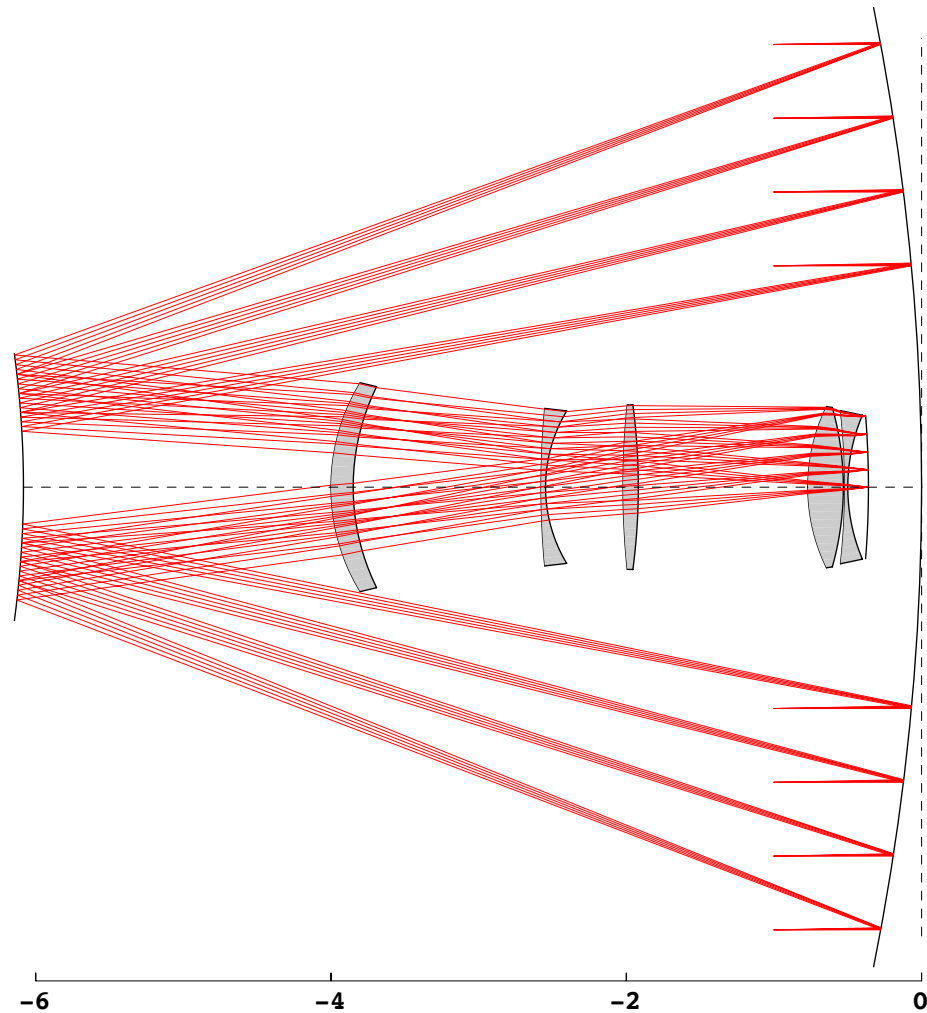
5-lens all-spherical corrector scaled to WFM3 reqts

6.5m PM diameter, f/3.7 final, FL=24m, plate scale = $24\mu\text{m}/\text{urad}=120\mu\text{m}/\text{arcmin}$

Optimized at 108 pupil locations x 4 wavel (i, F, C, t) x 5 fields (0, 5, 10, 15, 20mrad)

Delivers average blur $26\mu\text{m}$ 2Drms so 0.22 arcsecond 2Drms

M.Lampton UCB SSL 5 Dec 2018



WFM3run4 Prescription and Refraction table (only used i, F, C, and t wavel)

In BEAM FOUR question mark tags allow independent AutoAdjust; letter tags allow ganged AutoAdjust

13 surfaces index	type	WFM3run4.OPT Z,meters	five lenses Curvature	Aspher	26 um2Drms Diam	A4	A6	A8
	MirPri	0.0	-0.0615184	-1.	6.5			
	MirSec	-6.08308680?	-0.153070315139?	-4.755423173?				
	L1front:	-4.000	0.731146089652?					
FS	L1back	-3.850	0.648428789135?					
	L2front:	-2.57700949a	0.172010613141?					
FS	L2back	-2.54700949a	0.995355436386?					
	L3front:	-2.02180182b	0.181387513676?					
FS	L3back	-1.91867682b	-0.234736616474?					
	L4front:	-0.77	0.800713007822?					
FS	L4back	-0.53	-0.501237410372?					
	L5front:	-0.52	-0.217922602623?					
FS	L5back	-0.50	0.796994379418?					
	focus	-0.36	-0.163651709951?					

8 glasses	WFM3.MED glass	365.015 i	435.835 g	486.133 F	587.562 d	656.273 C	852.110 s	1013.98 t
	C1	1.474580	1.466730	1.463162	1.458499	1.456402	1.452500	1.450278
	C2	1.474641	1.466791	1.463223	1.458561	1.45646	1.452563	1.450342
	ADC1	1.536945	1.527374	1.523070	1.517498	1.515022	1.510508	1.508023
	ADC2	1.536225	1.526635	1.522325	1.516746	1.514267	1.509743	1.507246
	C3	1.474555	1.466701	1.463132	1.458467	1.45637	1.452469	1.450245
	C4	1.474555	1.466701	1.463132	1.458467	1.45637	1.452469	1.450245
	FS	1.474555	1.466701	1.463132	1.458467	1.45637	1.452469	1.450245
	BK7	1.53627	1.526680	1.52238	1.51680	1.51432	1.50980	1.50731

FS and BK7 are generic.
 C1, C2, ADC1, ADC2 are melt data from DESI-2880-v2
 C3, C4 adopting generic.