

Cygwin/XFree86 - 0:0

CODE V - start.3.len

File Edit Lens Display Review Analysis Optimization Tools Window Help

1 - Single Aplanatic Imaging

Lens Data Manager

Surface #	Surface Name	Surface Type	Y Radius	Thickness	Glass	Refract Mode	Y Semi-Aperture
Object		Sphere	Infinity	Infinity		Refract	0
1		Sphere	Infinity	0.1250		Refract	0.1098
Stop		Sphere	0.7655	0.0300	'193_SIL	Refract	0.1083
3		Sphere	3.0845	0.0010		Refract	0.1073
4		Sphere	0.3738	0.0300	'193_SIL	Refract	0.1066
5		Sphere	0.7965	0.0010		Refract	0.1037
6		Sphere	0.2300	0.0270	'193_SIL	Refract	0.1013
7		Sphere	0.3638	0.0010		Refract	0.0969
8		Sphere	0.1535	0.0606	'193_SIL	Refract	0.0922
9		Sphere	0.2079	0.0010		Refract	0.0742
10		Sphere	0.0696	0.0437	'193_SIL	Refract	0.0626
11		Sphere	0.0722	0.0077		Refract	0.0456
12		Sphere	0.0253	0.0344	'MGF2'	Refract	0.0251
13		Sphere	Infinity	0.0088	'NIST'	Refract	0.0279
Image		Sphere	Infinity	0.0000		Refract	0.0010

Command Window

```

VIE
CODE V SUN Version: 9.30 SR1
The scale factor has been set to 350.0
=GL1 S14 'NIST'
14:02:56 Warning: The material following the image surface is ignored.
It is always assumed to be the same as the material preceding it.
14:02:56 Warning: Extra data 'NIST' ignored
=rsi f1 sl-1.1 0 1
Single Aplanatic Imaging Column
Position 1, Wavelength = 193.4 NM
X Y Z TANX TANY LENGTH
13 0.00000 0.01849 0.00000 0.00000 -2.06665 0.00664
IMG 0.00000 0.00040 0.00000 0.00000 -2.06665 0.02009
OPD = -0.180 Waves
=wri 1.43679*asin(atanf(2.06665))
ERROR: Arithmetic Exception
=wr 1.43679*asin(atanf(2.06665))
1.29334
=na
NA = 1.3

```

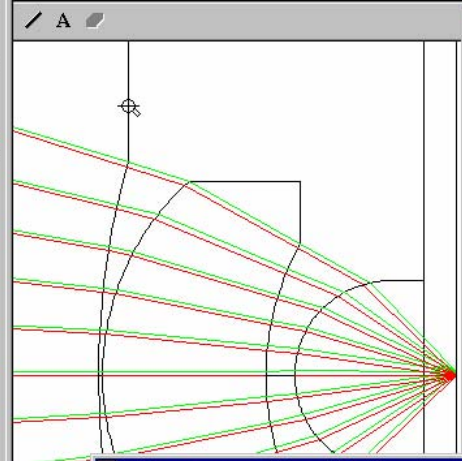
NA=1.3

CODE V>

DIM: Millimete Apertures Used: User-Defined and Def Use ZX Plane: No Polarization Ray Tracing Active: No



- ... Lens Data Manager
- ... Command Window
- ... Review Spreadsheets
- ... Listings
- Analysis Windows
 - ... /home/yuzuru/Cod
 - Paraxial Ray Trace
- ... Optimization
- Plot Windows
 - ... P1 - VIE
- ... Error Log



Surface #	Surface Name	Surface Type	Y Radius	Thickness	Glass	Refract Mode	Y Semi-Aperture
Object		Sphere	Infinity	Infinity		Refract	
1		Sphere	Infinity	0.1250		Refract	0.0848
Stop		Sphere	0.7655	0.0300	'193_SIL	Refract	0.0833
3		Sphere	3.0845	0.0010		Refract	0.0825
4		Sphere	0.3738	0.0300	'193_SIL	Refract	0.0822
5		Sphere	0.7965	0.0010		Refract	0.0797
6		Sphere	0.2300	0.0270	'193_SIL	Refract	0.0786
7		Sphere	0.3638	0.0010		Refract	0.0745
8		Sphere	0.1535	0.0606	'193_SIL	Refract	0.0724
9		Sphere	0.2079	0.0010		Refract	0.0570
10		Sphere	0.0696	0.0437	'193_SIL	Refract	0.0518
11		Sphere	0.0722	0.0077		Refract	0.0353
12		Sphere	0.0253	0.0344	'MGF2'	Refract	0.0248
13		Sphere	Infinity	0.0088	'NIST'	Refract	0.0101
						fract	0.0010

Paraxial Ray Trace

F10 SO..I
Single Aplanatic Imaging Column
Position 1, Wavelength = 193.4 NM

	HMY	UMY	N * IMY	HCY	UCY	N * ICY
EP	0.083311	0.000000		0.000000	0.012003	
1	0.083311	0.000000	0.000000	-0.001500	0.012003	0.012003
STO	0.083311	-0.039085	0.108835	0.000000	0.007693	0.012003
3	0.082138	-0.046065	-0.019436	0.000231	0.012045	0.012120
4	0.082092	-0.108385	0.173535	0.000243	0.007486	0.012695
5	0.078841	-0.113653	-0.014670	0.000467	0.012010	0.012597
6	0.078727	-0.195743	0.228584	0.000479	0.006949	0.014094
7	0.073435	-0.192305	0.009573	0.000667	0.011870	0.013705
8	0.073242	-0.294561	0.284739	0.000679	0.006019	0.016294
9	0.055383	-0.310355	-0.043981	0.001044	0.012205	0.017227
10	0.055073	-0.482956	0.480617	0.001056	0.002374	0.027376
11	0.033963	-0.490041	-0.019730	0.001160	0.012706	0.028770
12	0.030177	-0.700576	0.703132	0.001258	-0.005994	0.062454
13	0.006112	-0.695996	-1.000000	0.001052	-0.005955	-0.008556
IMG	0.000021	-0.695996		0.001000	-0.005955	

NA=1.0



- Lens Data Manager
- Command Window
- Review Spreadsheets
- Listings
 - Paraxial Ray Trace
- Analysis Windows
 - /home/yuzuru/Cod
 - Paraxial Ray Trace
- Optimization
- Plot Windows
 - P1 - VIE
- Error Log

Paraxial Ray Trace

FIO SO..I
Single Aplanatic Imaging Column
Position 1, Wavelength = 193.4 NM

	HMY	UMY	N * IMY	HCY	UCY	N * ICY
EP	0.041655	0.000000		0.000000	0.012003	
1	0.041655	0.000000	0.000000	-0.001500	0.012003	0.012003
STO	0.041655	-0.019543	0.054418	0.000000	0.007693	0.012003
3	0.041069	-0.023032	-0.009718	0.000231	0.012045	0.012120
4	0.041046	-0.054192	0.086767	0.000243	0.007486	0.012695
5	0.039420	-0.056827	-0.007335	0.000467	0.012010	0.012597
6	0.039363	-0.097871	0.114292	0.000479	0.006949	0.014094
7	0.036717	-0.096152	0.004787	0.000667	0.011870	0.013705
8	0.036621	-0.147280	0.142370	0.000679	0.006019	0.016294
9	0.027692	-0.155178	-0.021991	0.001044	0.012205	0.017227
10	0.027537	-0.241478	0.240309	0.001056	0.002374	0.027376
11	0.016982	-0.245021	-0.009865	0.001160	0.012706	0.028770
12	0.015089	-0.350288	0.351566	0.001258	-0.005994	0.062454
13	0.003056	-0.347998	0.500000	0.001052	-0.005955	-0.008556
IMG	0.000011	-0.347998		0.001000	-0.005955	

NA=0.5

Paraxial Ray Trace : 15:55:51

FIO SO..I
Single Aplanatic Imaging Column
Position 1, Wavelength = 193.4 NM

	HMY	UMY	N * IMY	HCY	UCY	N * ICY
EP	0.083311	0.000000		0.000000	0.012003	
1	0.083311	0.000000	0.000000	-0.001500	0.012003	0.012003
STO	0.083311	-0.039085	0.108835	0.000000	0.007693	0.012003
3	0.082138	-0.046065	-0.019436	0.000231	0.012045	0.012120
4	0.082092	-0.108385	0.173535	0.000243	0.007486	0.012695
5	0.078841	-0.113653	-0.014670	0.000467	0.012010	0.012597
6	0.078727	-0.195743	0.228584	0.000479	0.006949	0.014094
7	0.073435	-0.192305	0.009573	0.000667	0.011870	0.013705
8	0.073242	-0.294561	0.284739	0.000679	0.006019	0.016294
9	0.055383	-0.310355	-0.043981	0.001044	0.012205	0.017227
10	0.055073	-0.482956	0.480617	0.001056	0.002374	0.027376
11	0.033963	-0.490041	-0.019730	0.001160	0.012706	0.028770
12	0.030177	-0.700576	0.703132	0.001258	-0.005994	0.062454
13	0.006112	-0.695996	-1.000000	0.001052	-0.005955	-0.008556
IMG	0.000021	-0.695996		0.001000	-0.005955	

NA=1.0

Class	Refract Mode	Y Semi-Aperture
	Refract	
	Refract	0.0432
SIL	Refract	0.0417
	Refract	0.0413
SIL	Refract	0.0413
	Refract	0.0399
SIL	Refract	0.0398
	Refract	0.0374
SIL	Refract	0.0371
	Refract	0.0288
SIL	Refract	0.0281
	Refract	0.0182
	Refract	0.0156
	Refract	0.0044
	Refract	0.0010

N * ICY
0.012003
0.012003
0.012120
0.012695
0.012597
0.014094
0.013705
0.016294
0.017227