

Introducing the new 2012 RiLA range



The scenery:

Availability of large, inexpensive, CCDs

Request for large, corrected field

Request for “fast” optical schemes

Request for large diameter telescopes

The design guidelines:

A new and innovative concept large diameter astrograph

Compact dimensions

Fast focal ratio

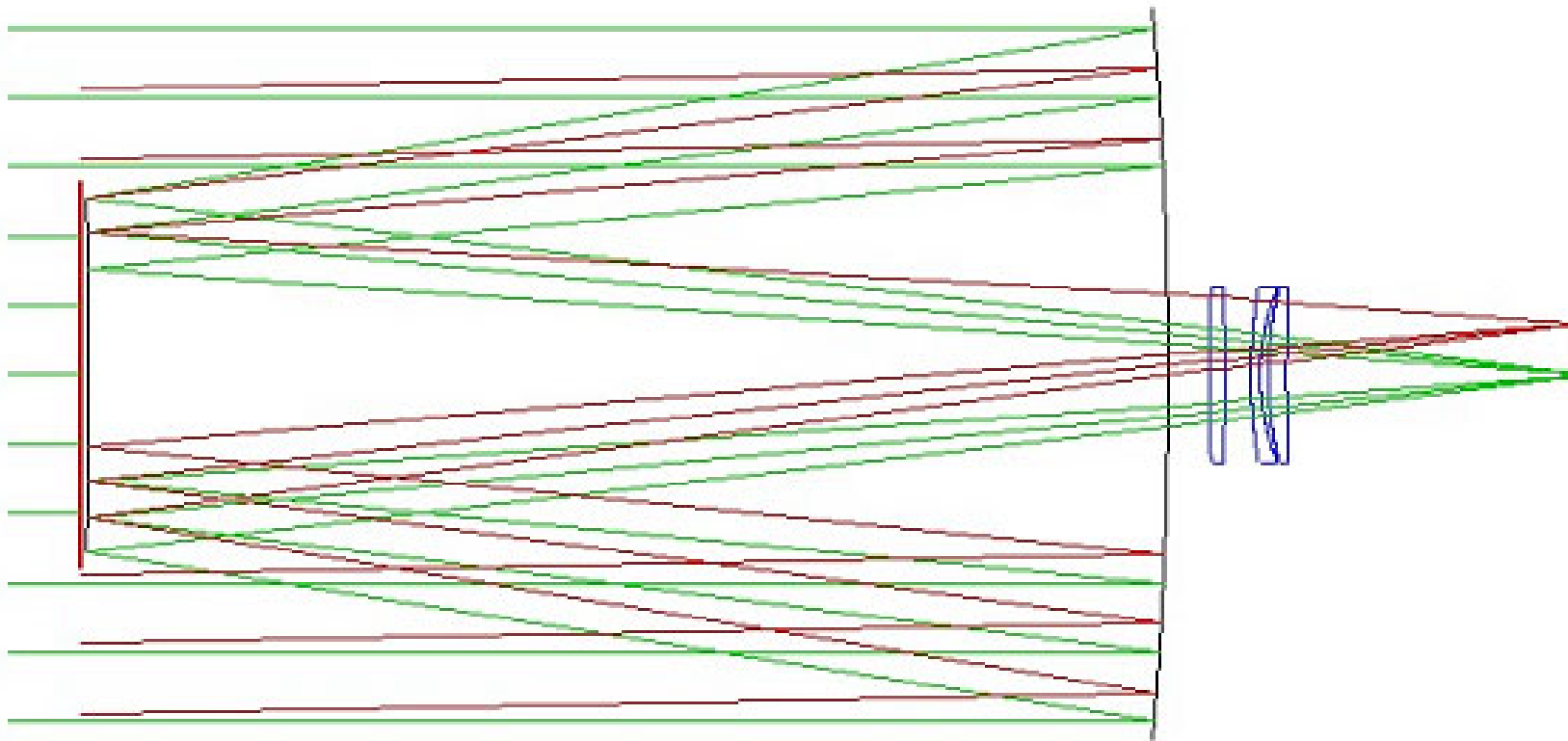
Large corrected field

Lower as possible surfaces number

Smaller as possible obstruction

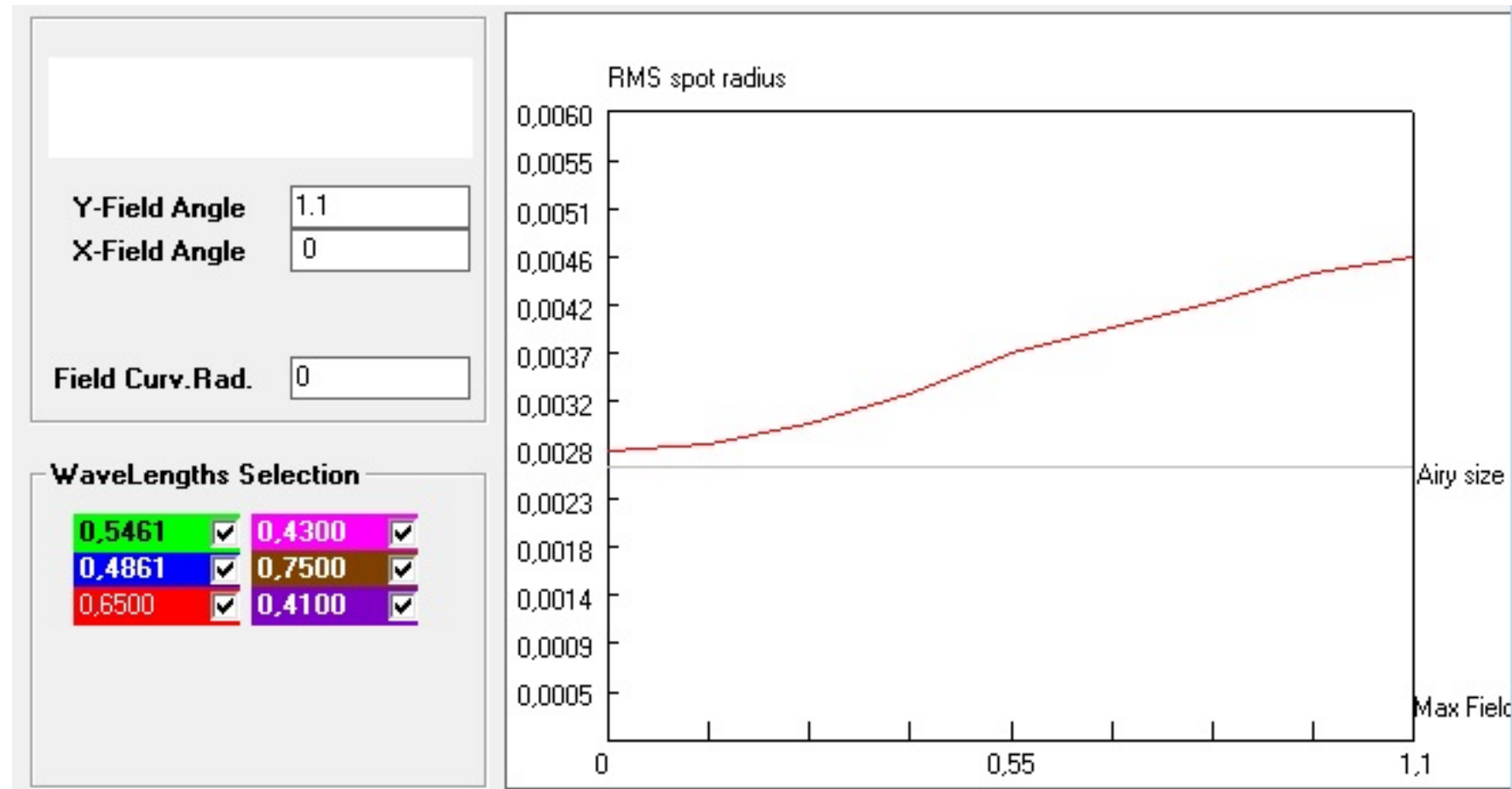
Simpler as possible surfaces figuring

The RiLA layout



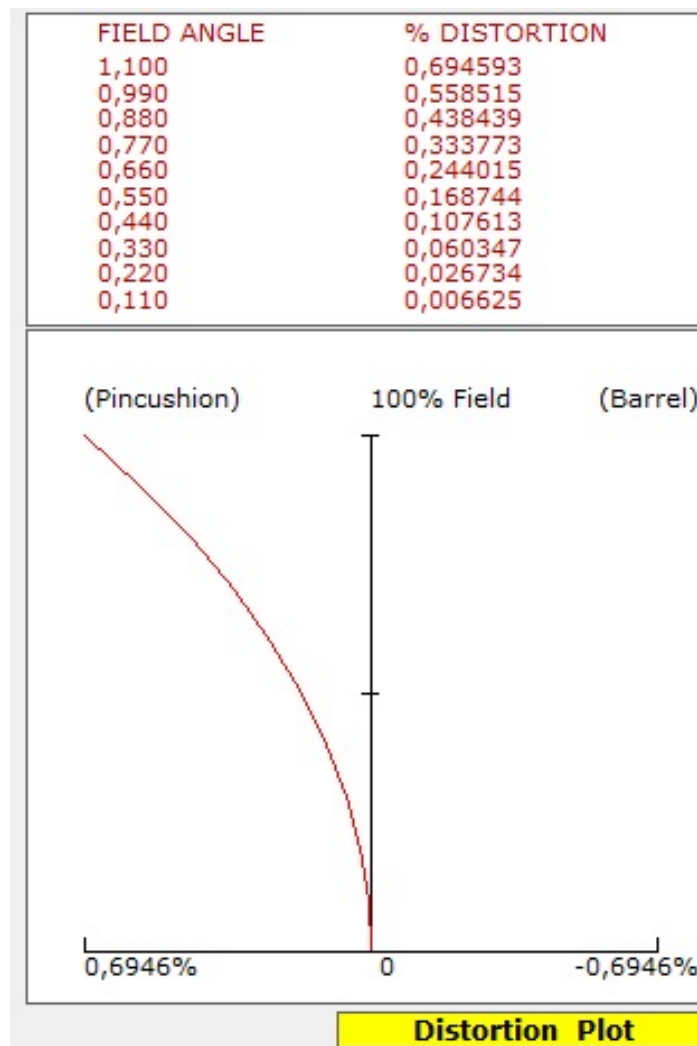
- ▣ **Spherical secondary mirror**
- ▣ **Aspherical primary mirror**
- ▣ **Corrector lens group before focus**

The RiLA performance: 24" F/3.8 SPOT SIZE



- **Less than 5 micron RMS 50 mm Off axis!**
- **More than 2.2 degrees of total field!**

The RiLA performance: 24" F/3.8 DISTORTION



- ▣ **0,6% Maximum field distortion to the edge**

The New RiLA range:

Diameter and F/ratio	Field
12" (300 mm) F/3.8	60 mm / 3°
16" (400 mm) F/3.7 or F/5.2	105 mm / 3°
20" (500 mm) F/3.8 or F/5	105 mm / 3.7°
24" (600 mm) F/3.8 or F/5	105 mm / 2.3°
32" (800 mm) F/5	120 mm / 1.7°



Introducing the New RiLA range

The RiLA advantages!

- **Easy to align!**
- **Small spot size!**
- **Widest corrected field!**
- **Fast F/3.8 focal ratio!**
- **Diameters up to 32"!**
- **Thermal stability!**