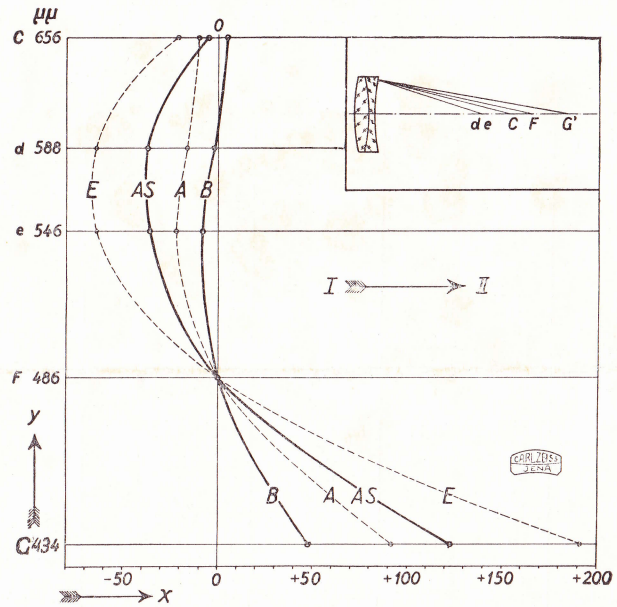
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New Astronomical Telescope Objectives

Type AS



The secondary "colour residues" (blue fringes) evident when using "two component" telescope-objectives made from ordinary glass (as is type E), have been found to represent a rather disturbing factor for various kinds of observations, and therefore, in their stead, recourse is often taken to "two-component" apochromatic objectives of type A. The latter objectives having a greater focal distance will naturally increase the weight of the instrument. — The new type of telescope objective AS has the identical focal distance as have E objectives. — The chromatic correction of "AS" objectives lies about midways between that of E and A objectives as shown on above chart, and the focal distance corresponds to that of the "three-component" apochromate type B.

As far as the acuity of image and the spherical correction are concerned AS-objectives are fully equal to E objectives, and are even superior to A objectives.

The distances in direction x — as illustrated on above chart — represent the chromatical deviations for wave-length 486 taken as the zero point, in parts of hundredthousandths of the focal distance.

Distances in direction y represent the wave-length in millionths of millimeters.

The diagram in the upper right hand corner shows the comparative positions of focal points with a view to the various colours. —

B. X. 30.

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