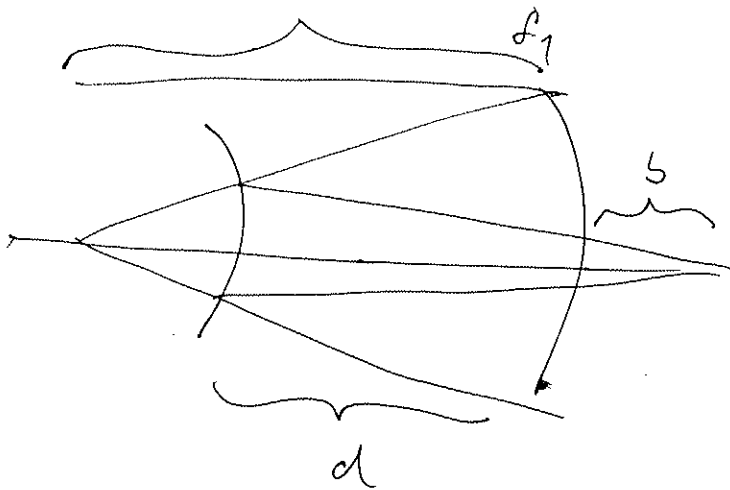


Začlenění plochého Cassegrainu



$$\frac{D_1}{D_2} = \frac{f}{b+d} = \frac{f_1}{f_1-d} \Rightarrow b+d = m(f_1-d)$$

$$b = m(f_1-d) - d = m\left(f_1-d - \frac{d}{m}\right)$$

podst' $\Rightarrow |f_1| = |f_2|$; $m = \frac{f_2}{f_1+f_2-d} = \frac{-f_1}{f_1-f_1-d} = \frac{f_1}{d}$

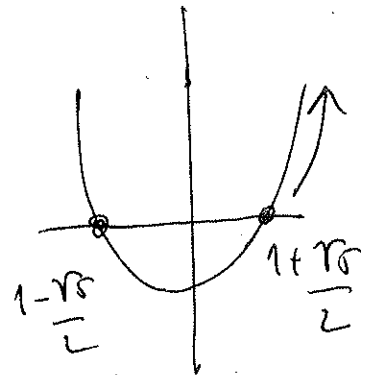
$$b = m\left(f_1 - \frac{f_1}{m} - \frac{f_1}{m}\right) > 0 \quad \Downarrow \quad d = \frac{f_1}{m}$$

$$\text{pro } m^2 - m - 1 > 0$$

$$m_{1,2} = \frac{1 \pm \sqrt{5}}{2}$$

$$m > \frac{1+\sqrt{5}}{2}$$

$$\left[\varepsilon = \frac{D_2}{D_1} = \frac{f_1-d}{f_1} = \frac{f_1 - \frac{f_1}{m}}{f_1} = \frac{m-1}{m} \right]$$



$$m > \frac{1+\sqrt{5}}{2} \Rightarrow \varepsilon > \frac{\sqrt{5}-1}{\sqrt{5}+1} \approx 0.38$$

proxi: $m \hat{=} 2 \Rightarrow \varepsilon \hat{=} 0.5$

Začlenění obecného Cassegr.

$$\varepsilon = \frac{D_c}{D_1} = \frac{b+d}{f} = \frac{f_1-d}{f_1}$$

$$b=0$$

$$d = m(f_1 - d)$$

$$d(m+1) = m f_1$$

$$d = \frac{m f_1}{m+1}$$

$$\varepsilon = \frac{d}{m f_1} = \frac{m f_1}{(m+1) m f_1} = \frac{1}{m+1}$$

$$m \rightarrow \infty \quad \varepsilon \rightarrow 0$$

$$\frac{1}{m+1} = \frac{m-1}{m} \quad \text{plochý}$$

obecný

$$m = \frac{\sqrt{5}+1}{2}$$

$|f_1| = |f_c|$

WRIGHT

STOP - SHIFT

$$a_c = \frac{1}{R^2} - \frac{4(1+k)}{4R^2} L = \frac{1}{R^2} [1 - (1+k)\sigma]$$

$$a_a = \frac{1}{R} - 2L \frac{1}{R^2} + 4L^2 \frac{(1+k)}{4R^2} = \frac{1}{R} (1 - 2\sigma + (1+k)\sigma^2)$$

$$a_c = 0 \Rightarrow 1 - (1+k)\sigma = 0 \Rightarrow \sigma = \frac{1}{1+k}$$

WRIGHT

$$\sigma = \frac{1}{2} \Rightarrow k = 1$$

$$a_a = \frac{1}{R} (1 - 1 + 2 \cdot \frac{1}{4}) = \frac{1}{2R} \text{ (polovina pro ap. na zr.)}$$

větší barevná vada - elipsoid má větší SA

Naivrh SCT

(1) sk'richy'

	RD	TH	GLASS	POLN.
1	0	5	BK7	AST
2	0	300	—	—
3	-800	-295	REFL	—
4	-260(S_1)	S_L	REFL	—

S_1 : axial angle $-0,05 \rightarrow f = 2000, RD(3) = -258,72$

S_L : -" height 0

optm. AD(2) SA=0

slider wheel CV(L), AD(L)

$$\Rightarrow RD(2) = -5,555 \cdot 10^4$$

$$AD(2) = 6,7 \cdot 10^{-10}$$

(2) ar'richy'

optm CC(4), AD(2) as, SAJ = CHAJ = 0

$$\begin{array}{l} / \quad \quad \quad \backslash \\ -0,842745 \quad \quad 7,7 \cdot 10^{-10} \end{array}$$

slider wheel CV(L), AD(2) $\Rightarrow RD(2) = -4,34 \cdot 10^4$

RD(175) ~ -170 $AD(L) = 7,77 \cdot 10^{-10}$