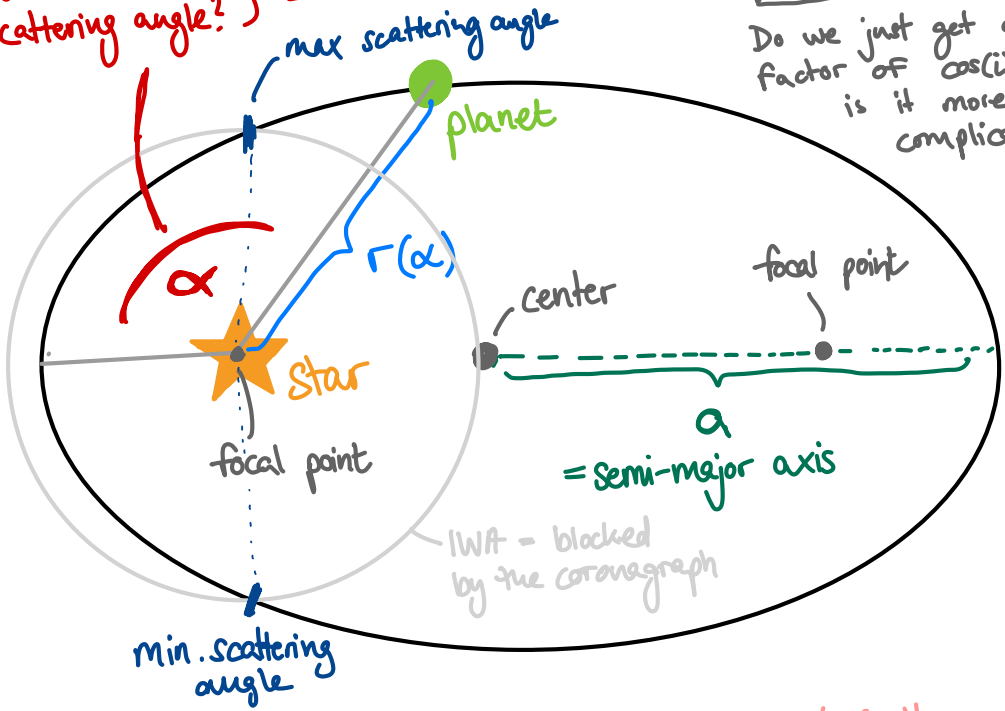


position angle
→ 90° offset to
scattering angle? } $\boxed{\varphi = \alpha + 90^\circ}$

this plot assumes
inclination $i = 0$

Do we just get a
factor of $\cos(i)$ or
is it more
complicated?



Ellipse equation:

$$r(\alpha) = \frac{a^2 - e^2}{a + e \cdot \cos(\alpha)}$$

eccentricity:
 $0 \leq e < 1$

We need: $r(\alpha) \geq n \cdot \frac{\lambda}{D} = \text{IWA}$

Solve for α : $\alpha = \arccos\left(\frac{a^2 - e^2}{e \cdot \text{IWA}} - \frac{a}{e}\right)$