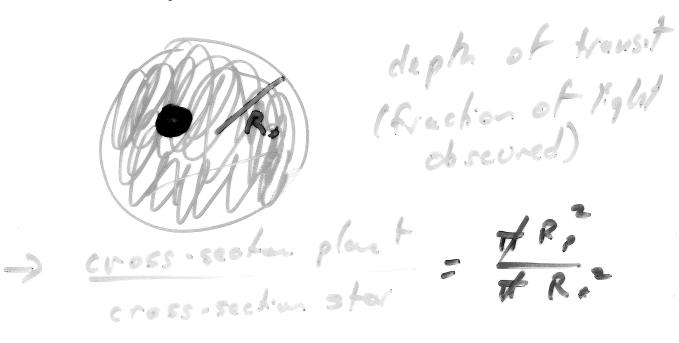
TEST Thursday come us mearly if possible OPEN BOOK, NO GLEETRONIES last yes test on line (also publim sets & section exercises) REVIEW SESSIONS Weds 6:30-7:30 TBD 9:15-10:00 WLH 208 TF Roffice his

classes server (before 10,0)

TRANSITS light blocked by planet

must be edge on



 $C_{xample}: C_{ach} han s.t.ny S_{co}$ $R_{e} = 7 \times 10^{6} m$ $R_{o} = 7 \times 10^{8} m$ $S_{coh} = \left(\frac{R_{e}}{R_{o}}\right)^{2} \cdot \left(\frac{3 \times 10^{6}}{2 \times 10^{6}}\right)^{2} \cdot \left(\frac{10^{6}}{2 \times 10^{6}}\right)^{2}$

0.01%

transit -> radius }=> density Me = 6 × 10 24 49 BE = 7.110 m = 6 × 10 24 4 × (7 × 10 6)3 = 6 × 10 24 4 + 380 × 10 18 = 6 x.10 = 4,10 kg/m3 10 Kg/43 pen Yale courses

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ANOTHER METHOD (as howetry)

observey change in position of Key point: definine carte of a blob light to much greater accurage how entert of blob



exercise: how big, a claye, in Son's position due to Jupiter would an d. Can as honour observe.

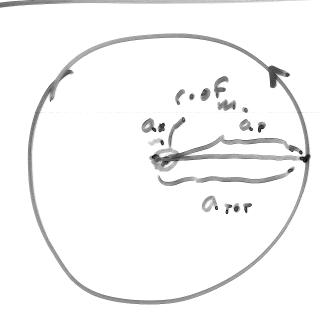
"change in position"

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want. orgular charge

 $M_0 = M_0$ $M_5 = 2 \times 10^{27} k_1 = 10^{-3} M_0$ $D_{CCM} = 0 = 1 PC$ $C_7 = 5 A.U.$



 $M * \alpha * = M_p \alpha_p$ $Q * = M_p \alpha_p$ $= 10^{-3} SAU$ $= 5 * 10^{-3} AU$

= 510-3

= 5-110⁻³ are seronds

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Early: ap = 1AU. Mp = 6 x 10 2.4 $\frac{M_{P}}{M_{+}} = \frac{6 \times 10^{34}}{2 \times 10^{30}} = 3 \times 10^{-6}$ 00 (Enh) = 1AU , 3 × 10-6 3 × 10-6 AU $\mathcal{L} = \frac{D_2}{D_1} = \frac{31/6^{-6}}{1} = \frac{31/6}{\text{arcsec}}$ NOT OBSEZUABLE ashonety: favors 316 orbits opposite of radial mel.

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SELETION EFFECTS

planets 6 Pur orbits mehod help to be close to Massive short/small radral relact (Doppler) edge-on MUSTbe short/small large transits edge-on Massive must be large as fromty warby

exper a.

Inabes it border

to have 9

fransit

"microleus.ug"

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