

plane change + lambert + Mars 9-256:5t

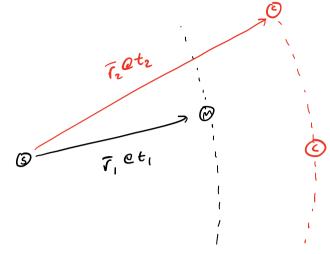
Earth orbit -> plane charge -> Mars -> g-assist -> Ceres -> circularise

+ plane charge

1 (cmbert)

Lambert Mars -> Ceres

Needed for Lambert 7, 72, (00), at = +2-+,



steps to compute

$$\delta\theta = \cos^{1}\left(\frac{\overline{r_{1}} \cdot \overline{r_{2}}}{r_{1}r_{2}}\right)$$

ful pm, ota

$$Sin\left(\frac{x}{2}\right) = \sqrt{\frac{5}{2\alpha}}$$
, $Sin\left(\frac{\beta}{2}\right) = \frac{5-c}{2\alpha}$

TOF: $\Delta t = \frac{\alpha^{3/2}}{\sqrt{m}} \left[\alpha - \beta - \left(\sin \alpha - \sin \beta \right) \right]$

solve for a with Matlab bisection

- plot 00 vs t from jpl horizons -> python? -> maybe calc. parans for each 00

- yout styl sty us. a

- elliphiz trajectory templyby 255:st

- test different 60 to find uptimel or