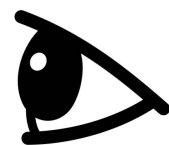
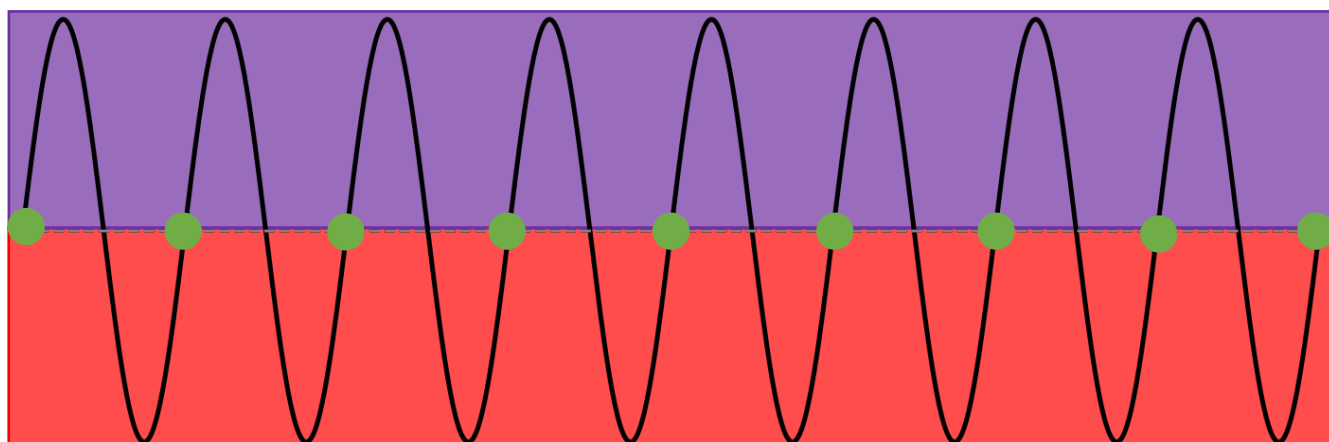


conjunction
induced TTVs



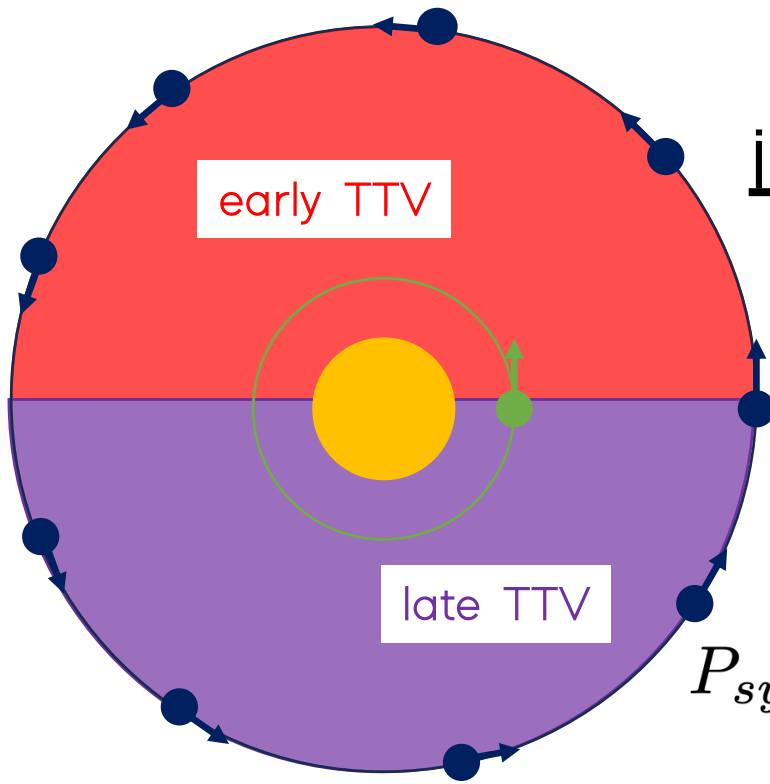
$$P_{syn} = \frac{1}{|1/P_1 - 1/P_2|}.$$

interior planet TTVs

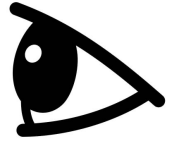


— time —→

we only observe transits
what do TTVs look like during transit?

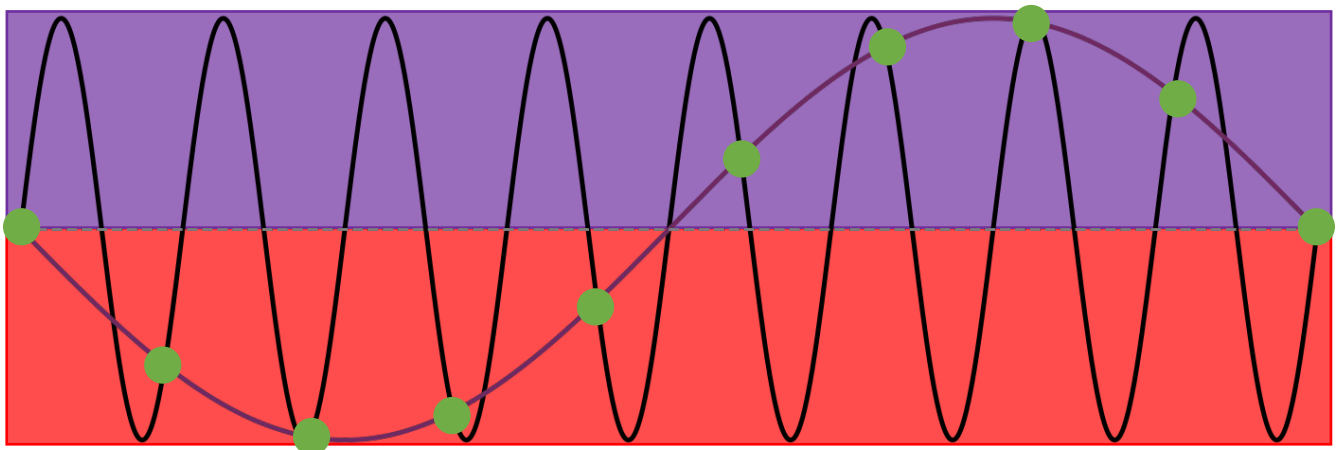


conjunction
induced TTVs



$$P_{syn} = \frac{1}{|1/P_1 - 1/P_2|}.$$

interior planet TTVs



— time —→

conclusion: if $P_2 > 2P_1$, then conjunction TTV signal will be aliased with a period = P_2 .