

KOI-3678 expected TTV periods
for a hidden planet that is $< 5\%$
from orbital period resonance

$\log_{10}(P_{\text{TTV}} \text{ [days]})$

1:5 1:4 1:3 2:5 1:2 3:5 2:3 3:4 4:5 5:4 4:3 3:2 5:3 2:1 5:2 3:1 4:1 5:1

$P_{\text{KOI-3678c}} : P_{\text{KOI-3678b}}$ in \log_{10} space

--- Observed P_{TTV} : 2.58 cycles = 415.08 days

