L_1 Horizontal Lyapunov ($H_{lt} = -1.550$, $a_{lt} = 0.10$) - Periodicity constraints verification Defect vector magnitude after convergence Position deviation at full period 10^{-10} 10^{-16} 2π $\frac{1}{2}\pi$ Maximum number of corrections Velocity deviation at full period $\equiv 150$ Number of corrections 10^{-10} $\stackrel{>}{\sim}$ 10^{-13} of collocation points [-] Distribution of errors over collocated trajectory Maximum collocation segment error $\max(e_i)$ - $\min(e_i)$ Number of nodes Number $\frac{1}{2}\pi$ $\frac{1}{2}\pi$ α [-] α [-]

of iterations