L_2 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} 10^{-16} 2π Maximum number of corrections Velocity deviation at full period 1000 Number of corrections 500 2π $\frac{1}{2}\pi$ Distribution of errors over collocated trajectory Maximum collocation segment error $\max(e_i)$ - $\min(e_i)$ Number of nodes α [-] α [-]