L_1 Horizontal Lyapunov ($H_{lt} = -1.500$, $a_{lt} = 0.10$) - Periodicity constraints verification Defect vector magnitude after convergence Position deviation at full period 10^{-10} |y(T) - y(0)| 10^{-16} 10^{-16} $\frac{1}{2}\pi$ 2π Maximum number of corrections Velocity deviation at full period $\equiv 150$ Number of corrections $\frac{1}{4}$ 10^{-13} $\frac{1}{2}\pi$ $\frac{1}{2}\pi$ collocation points [-] Distribution of errors over collocated trajectory Maximum collocation segment error $\max(e_i)$ - $\min(e_i)$ Number of nodes Number 10^{-14} $\frac{1}{2}\pi$ $\frac{1}{2}\pi$ α [-] α [-]

of iterations