embedded observer 3 z_1 Error z_1 nominal 10^{-1} -- \hat{z}_1 observer z₁ Error 2 10^{-4} Z_1 10^{-7} 1 10-10 10^{2} 1.0 z_2 nominal z₂ Error \hat{z}_2 observer 10^{-1} 0.5 10 -4 10 -4 0.0 -0.5 10^{-7} -1.01.0 10^{4} z_3 nominal z₃ Error \hat{z}_3 observer 0.5 10^{1} $^{\circ}_{N}$ 0.0 -0.5 10^{-5} -1.01.0 10^{6} z₄ Error z_4 nominal \hat{z}_4 observer 0.5 10^{3} Z4 Error $^{4}_{4}$ 0.0 10^{0} -0.5 10^{-3} -1.01.0 10⁸ z₅ Error z_5 nominal \hat{z}_5 observer 0.5 10^{5} z₅ Error 0.0 10^{2} -0.5 10^{-1} -1.010¹⁰ 1.0 z₆ Error z₆ nominal \hat{z}_6 observer 0.5 10^{7} z₆ Error 9 0.0 10^{4} -0.5 10^{1} -1.01.0 10^{10} z_7 nominal z₇ Error \hat{z}_7 observer 0.5 10⁷ z₇ Error 0.0 10^{4} -0.510¹ -1.010 20 30 40 50 60 70 80 10 20 30 40 50 60 70 80 Time (s) Time (s)