Position Tracking Comparison (default, 1/1) **EKF:** X Position PF: X Position **Ground Truth Ground Truth** 30 **EKF Estimate** PF Estimate EKF ±2σ PF ±2σ 25 25 20 20 € × 15 € × 15 10 10 5 5 0 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00 0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00 0.00 **EKF: Y Position** PF: Y Position 1 **Ground Truth EKF Estimate** EKF ±2σ 0 1 -1Ê ≻ -2 -3**Ground Truth -**2 PF Estimate PF ±2σ 1.00 1.25 1.00 1.25 0.00 0.25 0.50 0.75 1.50 1.75 2.00 0.00 0.25 0.50 0.75 1.50 1.75 2.00 **EKF: Z Position** PF: Z Position 2 2 1 1 0 0 Z (m) **-**2 -3 **-**4 **Ground Truth Ground Truth EKF Estimate** PF Estimate EKF ±2σ PF ±2σ 1.00 1.25 1.00 1.25 0.25 0.50 0.75 1.50 1.75 2.00 0.00 0.25 0.50 0.75 1.50 1.75 2.00 0.00 Time (s) Time (s)