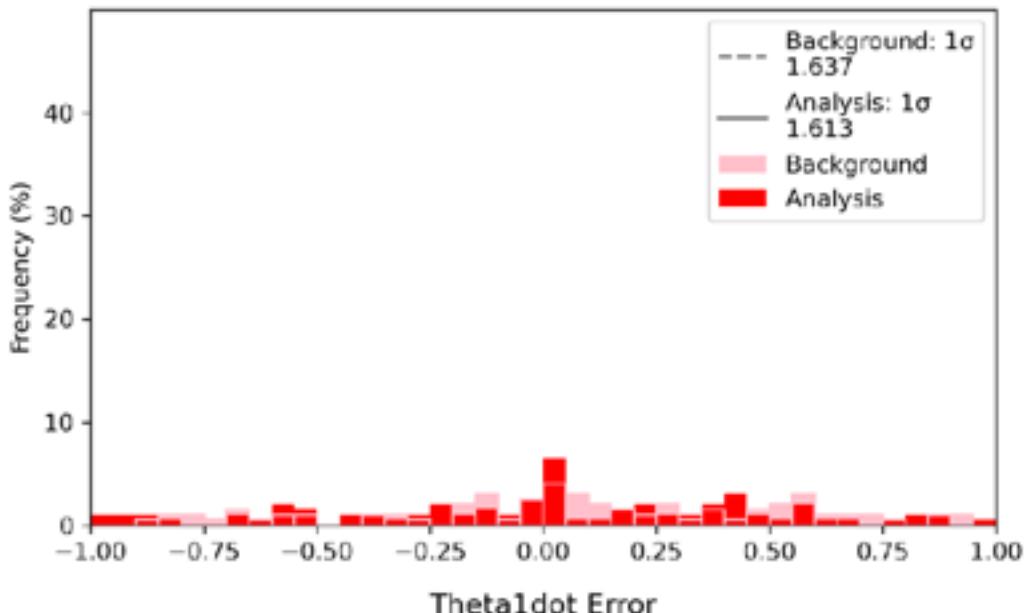




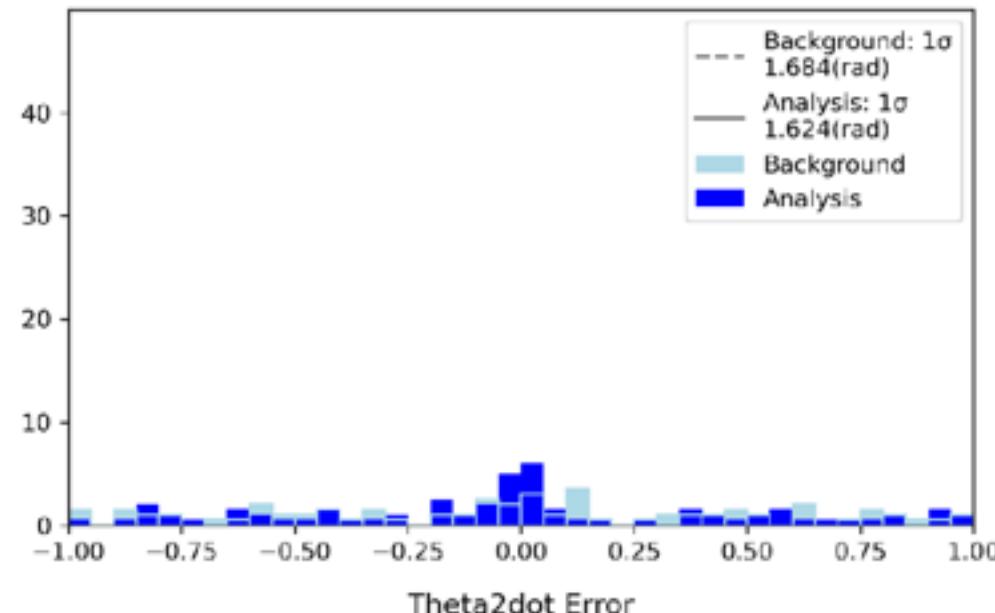


# Experiment 3: Analysis vs Background

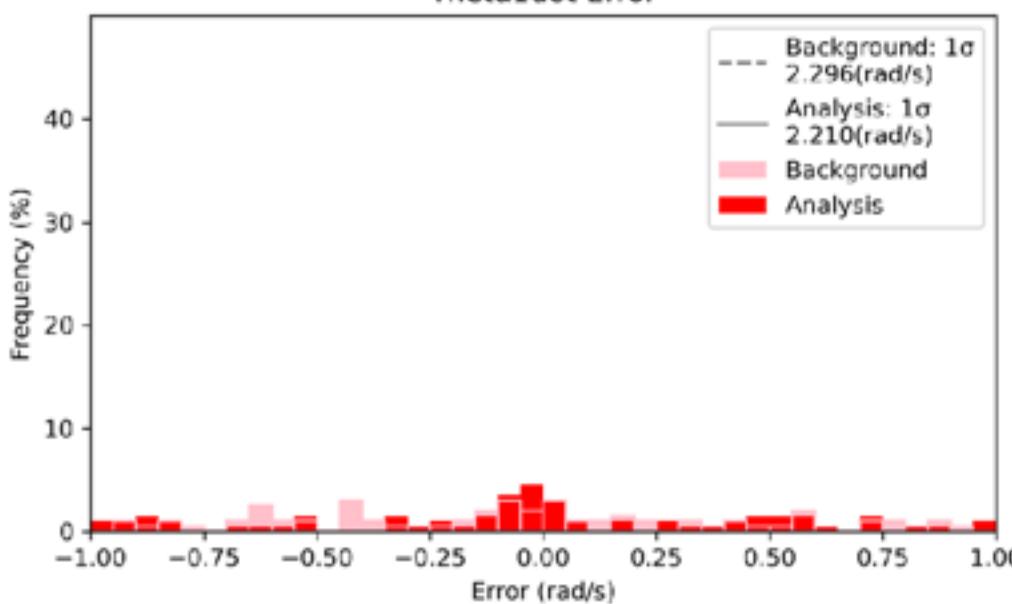
Theta1 Error



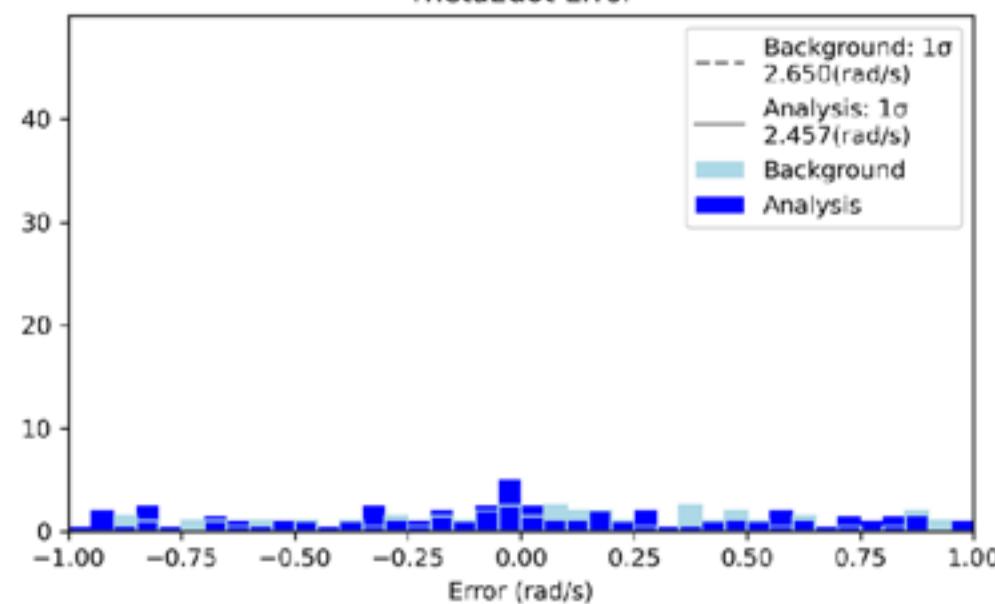
Theta2 Error



Thetadot Error



Theta2dot Error



子曰：「父母之言，善者誥焉，不善者亦誥焉。父母所作，善者與其人，不善者與其處。」

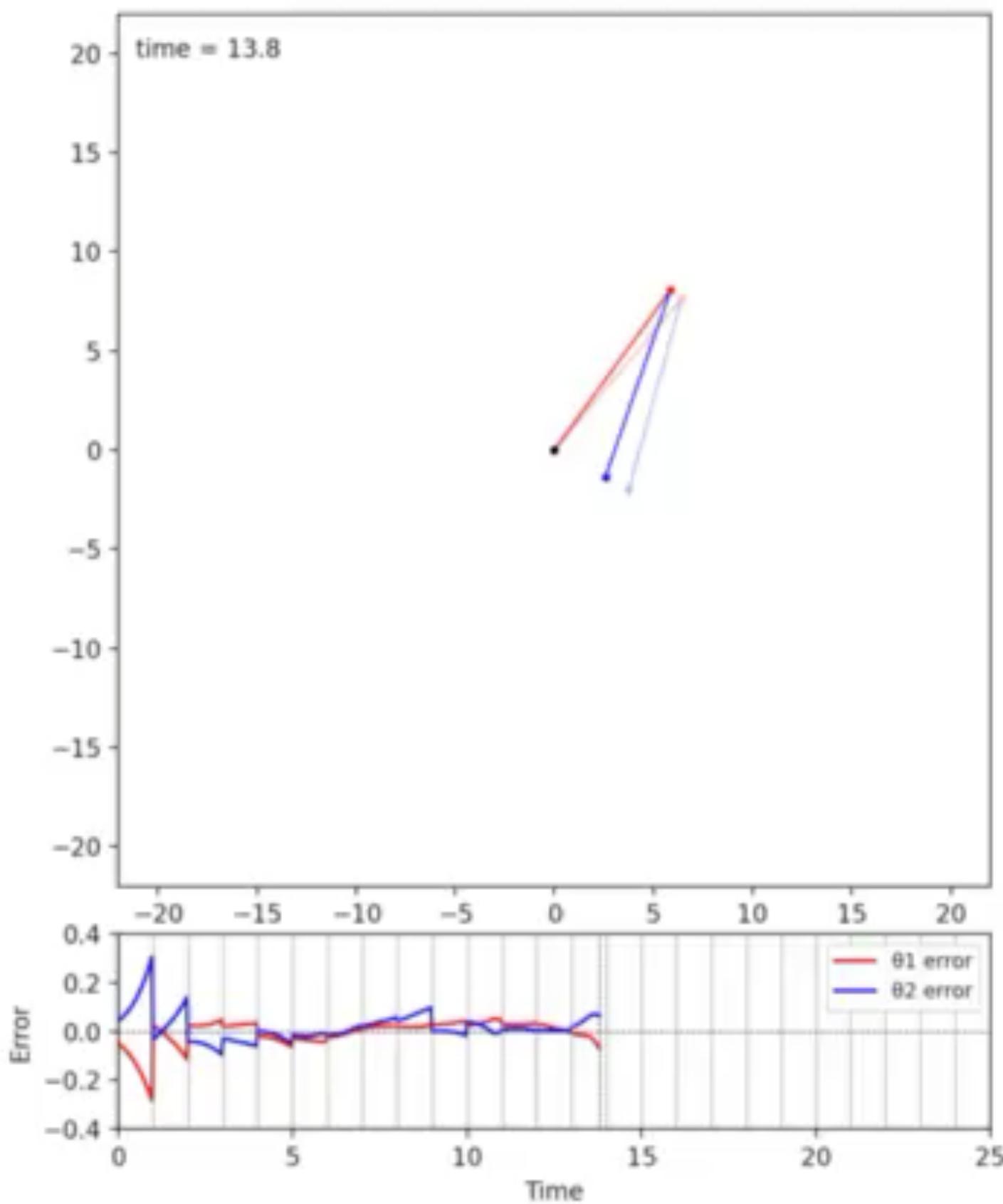
experience

使用擴展Kalman Filter（每1秒分析3次）



# Experiment 3 Extended Kalman Filter

## Forecast Analysis Cycle Period: 1



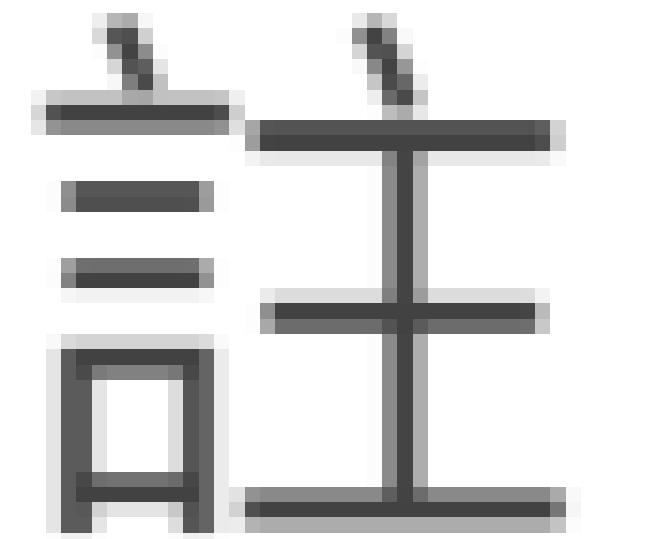
山東省濟寧市任城區南池鎮  
中華人民共和國郵政總局  
郵政編碼：272000

$\theta_1$  分析標準差 : 0.0361.613 (rad)

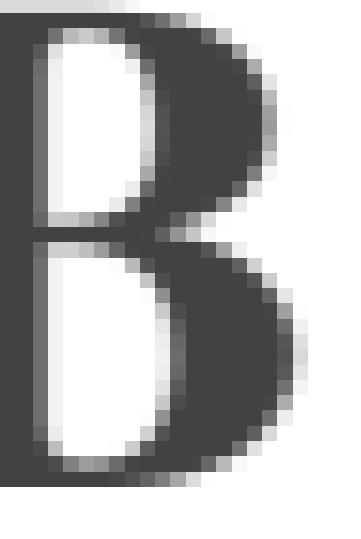
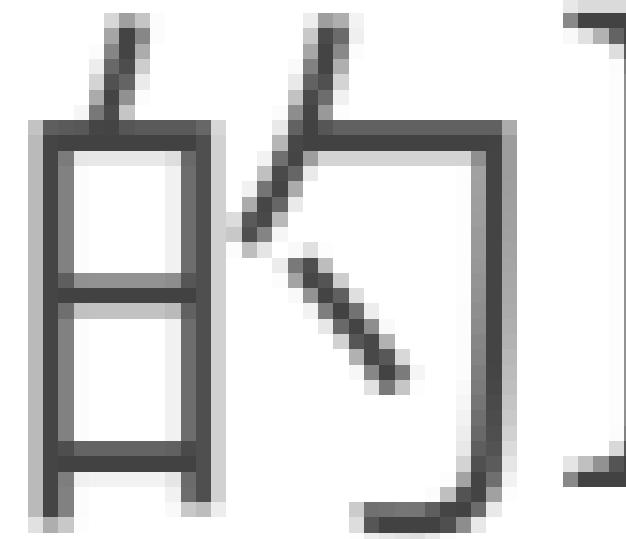
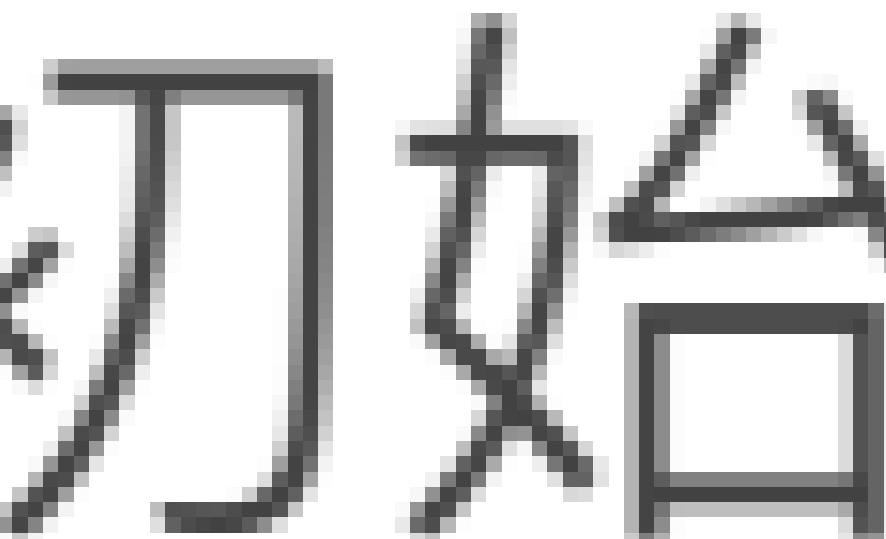
$\dot{\theta}_1$  分析標準差 : 0.0482.210 (rad/s)

$\theta_2$ 分析標準差 : 0.0361.624 (rad)

$\dot{\theta}_2$ 分析標準差 : 0.0482.457 (rad/s)



⋮

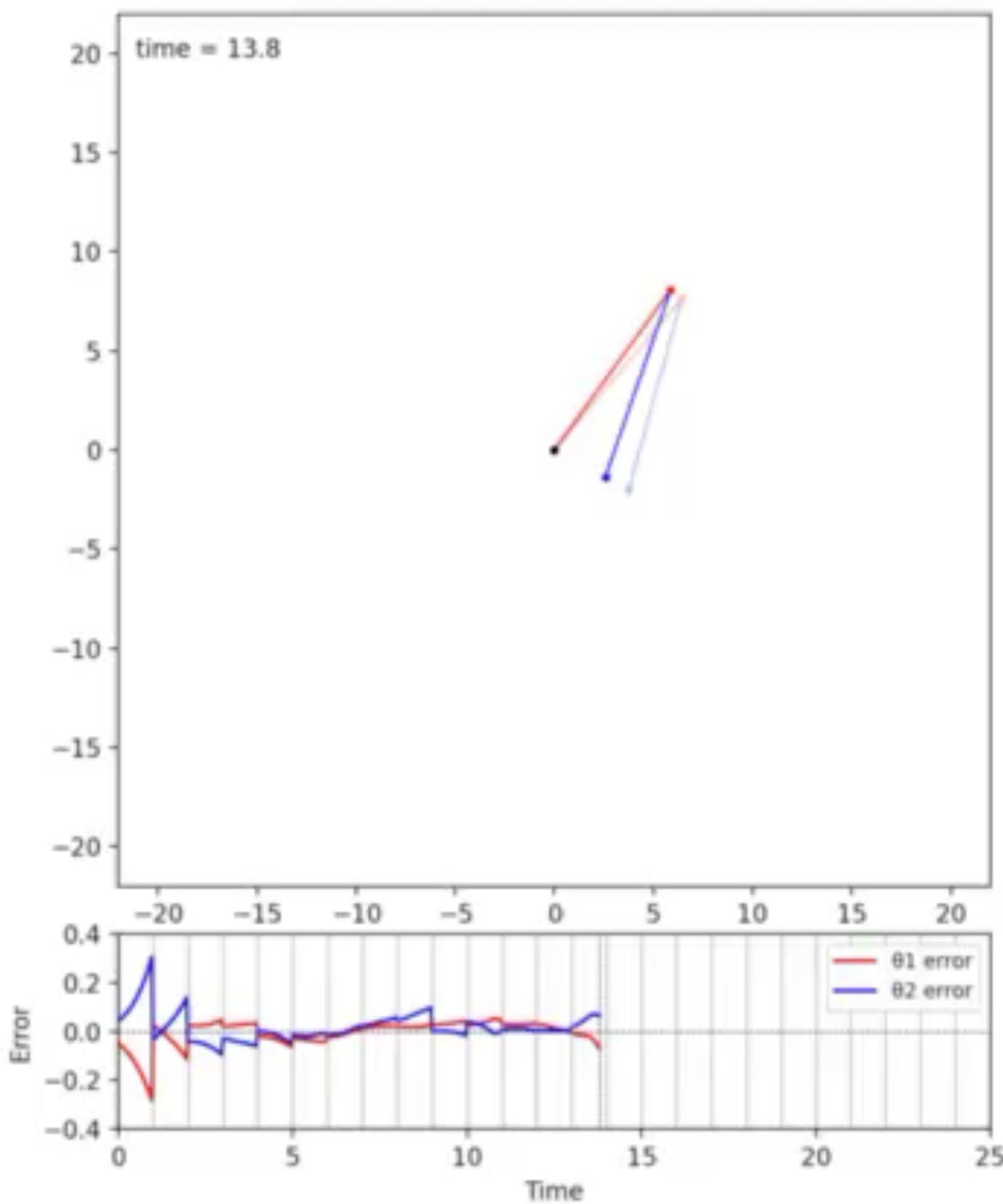


⋮



# Experiment 3 Extended Kalman Filter

## Forecast Analysis Cycle Period: 1

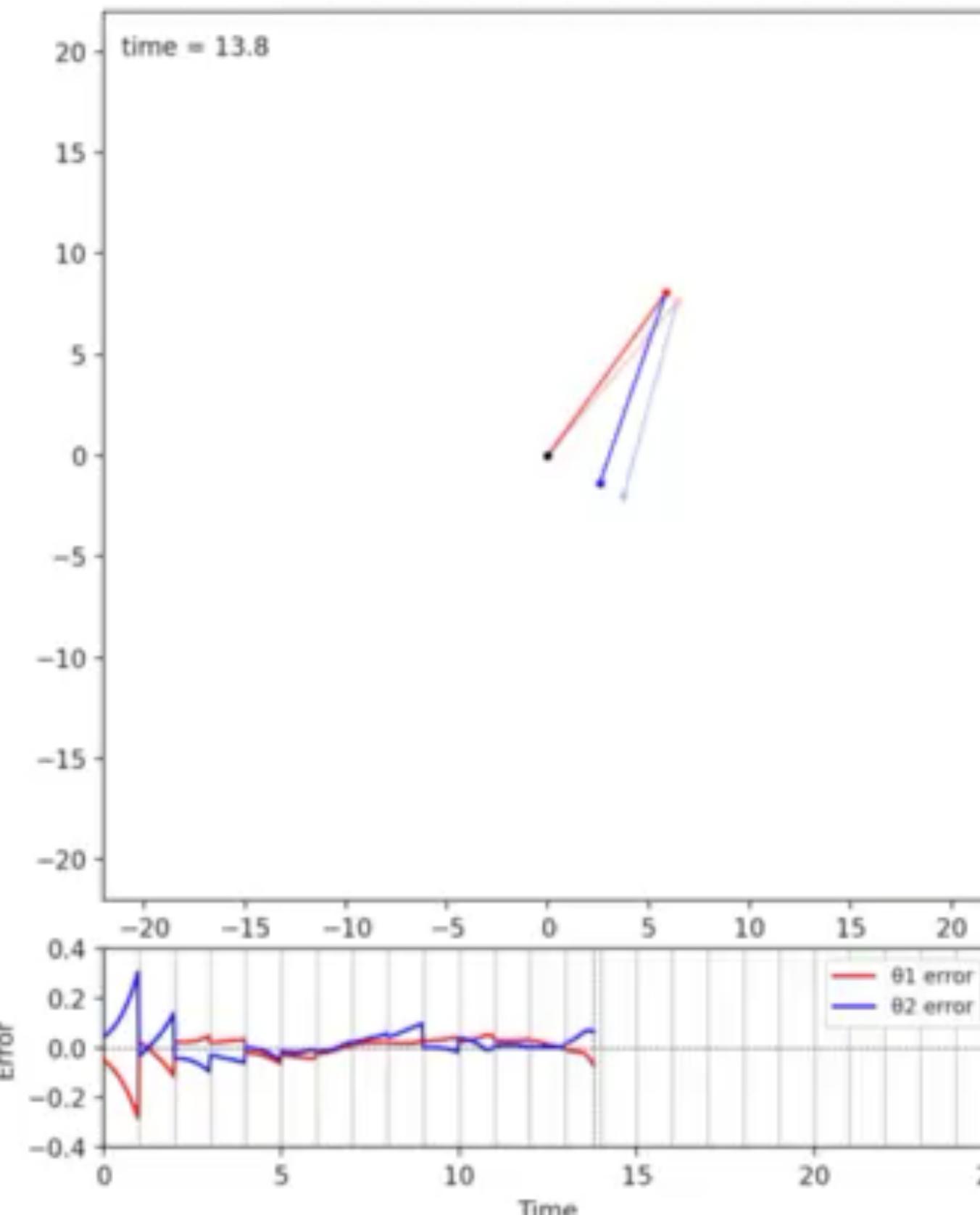


# Experiment

## Experiment 3: Extended Kalman Filter (每1秒分析一次，使用擴展卡爾曼濾波器)

Experiment 3 Extended Kalman Filter

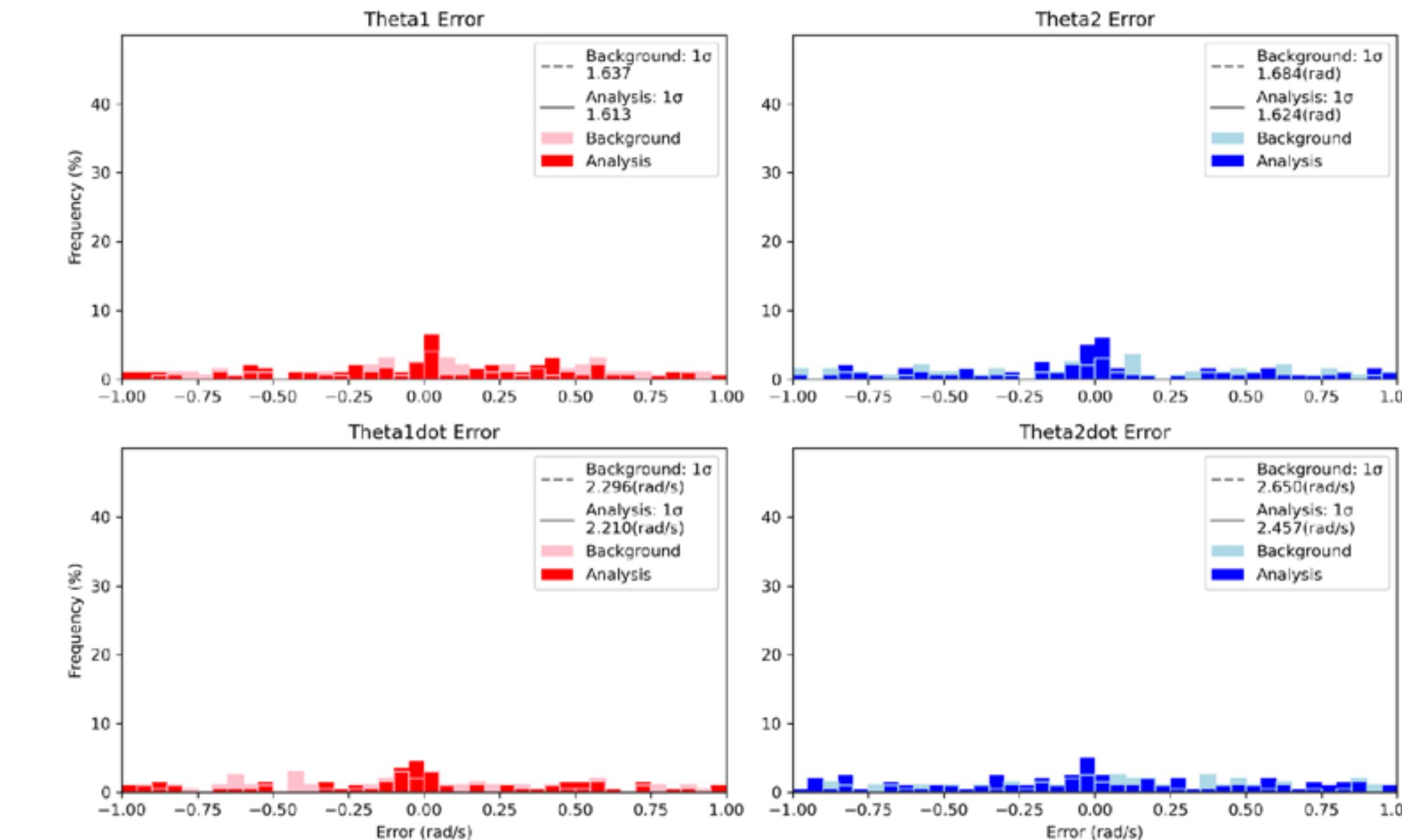
Forecast Analysis Cycle Period: 1



註：初始的  $\mathbf{B} = \mathbf{R}$

分析誤差相較於背景誤差改變了多少？

Experiment 3: Analysis vs Background



此實驗相較於觀測即分析時

$\theta_1$  分析標準差 : 0.036 1.613 (rad)  
 $\dot{\theta}_1$  分析標準差 : 0.048 2.210 (rad/s)

$\theta_2$  分析標準差 : 0.036 1.624 (rad)  
 $\dot{\theta}_2$  分析標準差 : 0.048 2.457 (rad/s)

# Experiment

Experiment 3: Extended Kalman Filter (使用擴展卡爾曼濾波器)

