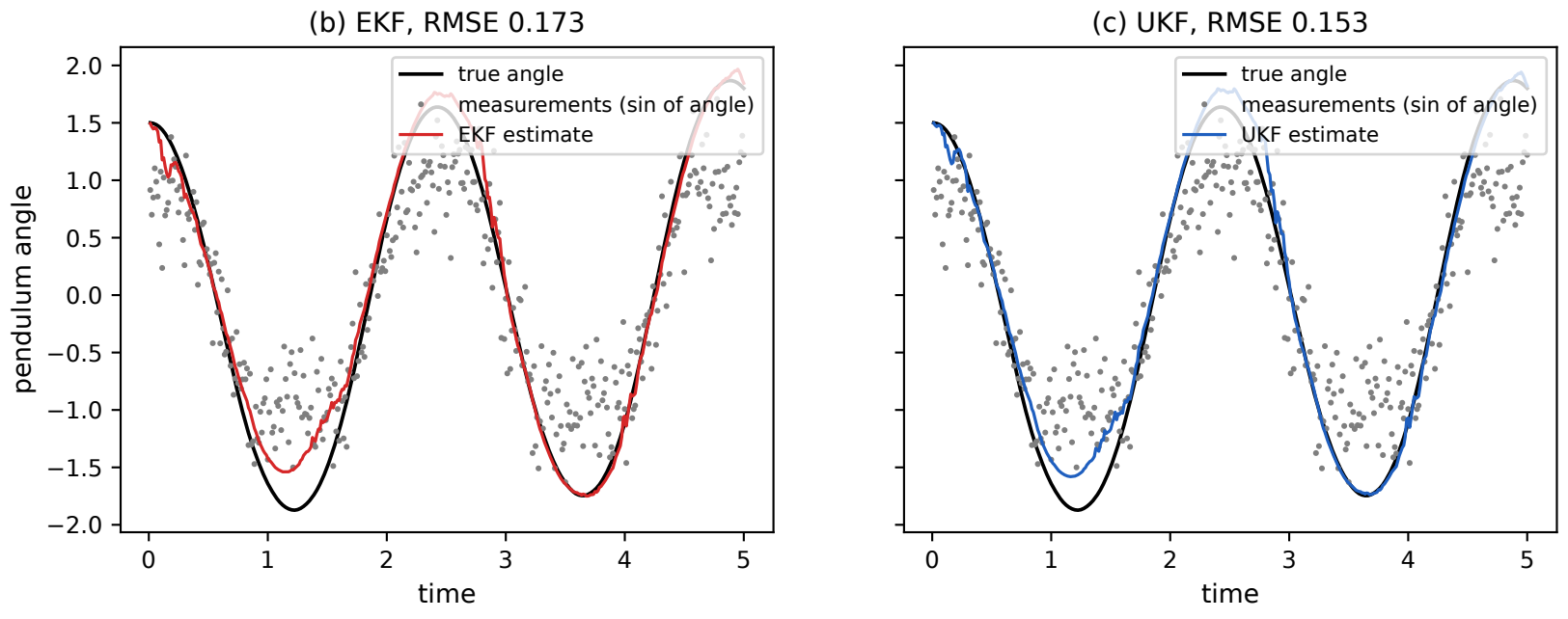

(b) EKF, RMSE 0.173
(c) UKF, RMSE 0.153
true angle
measurements (sin of angle)
EKF estimate
UKF estimate
pendulum angle
time
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
1
2
3
4
5