

(a)

 $10^3$  time steps for training

HQR

ESN

LSTM

GRU

VPT

7  
6  
5  
4  
3  
2  
1  
0

HQR,V=10

HQR,V=15

HQR,V=20

ESN-80

ESN-120

ESN-150

LSTM-150

LSTM-1000(2)

LSTM-3000

GRU-80

GRU-120(3)

GRU-3000(3)

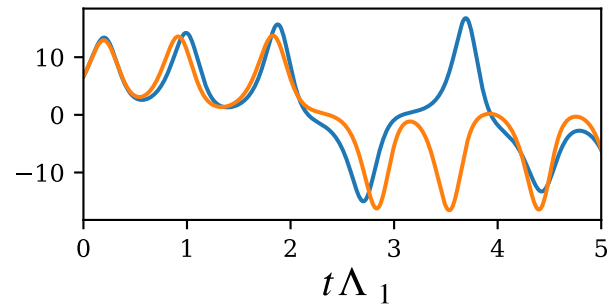
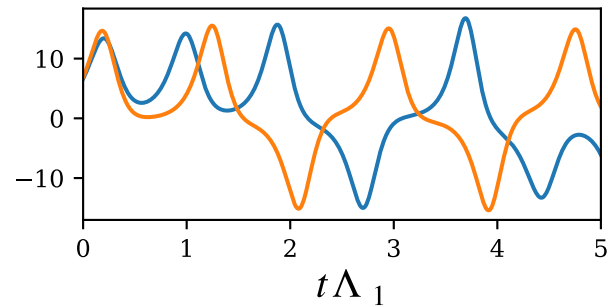
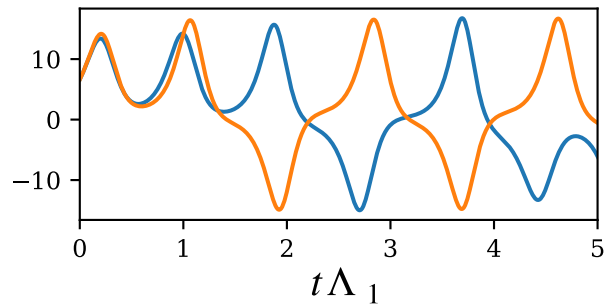
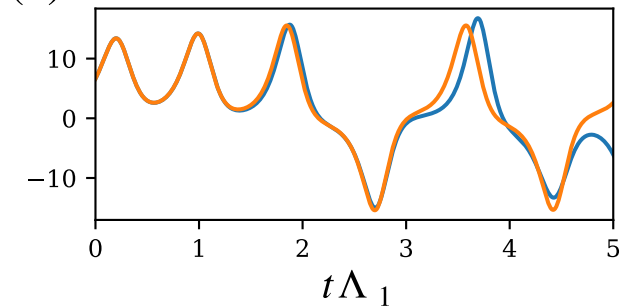
(b)

HQR,V=10

ESN-150

LSTM-150

GRU-120(3)



Target

Output