

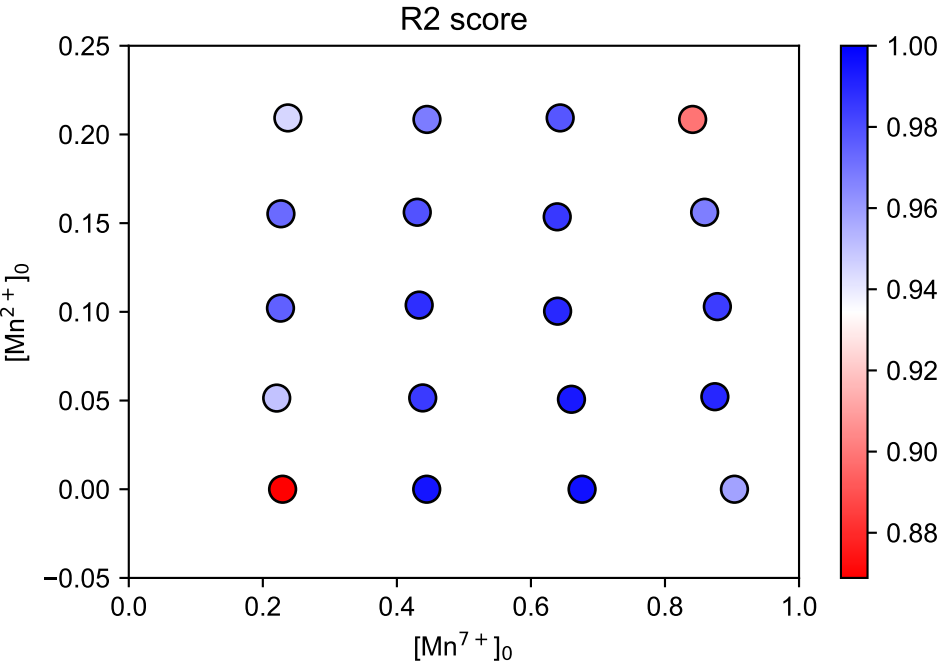
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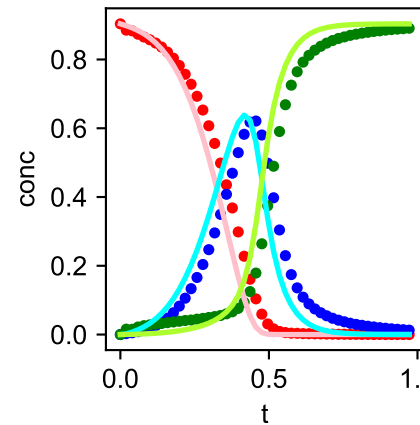
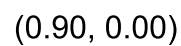
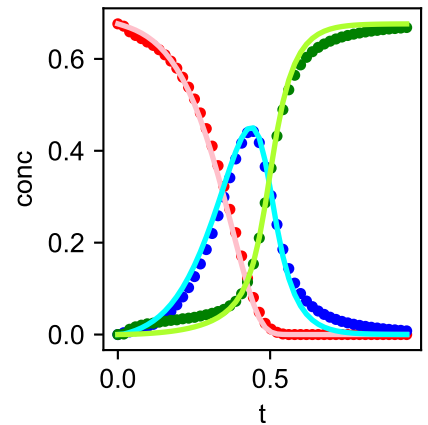
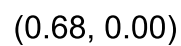
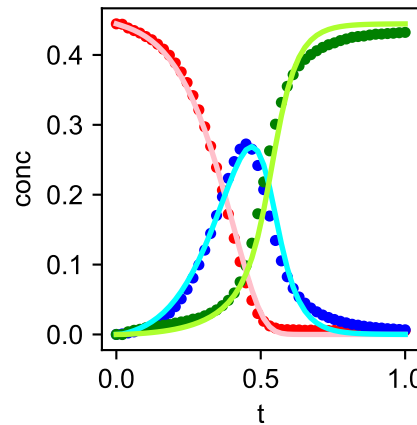
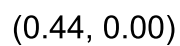
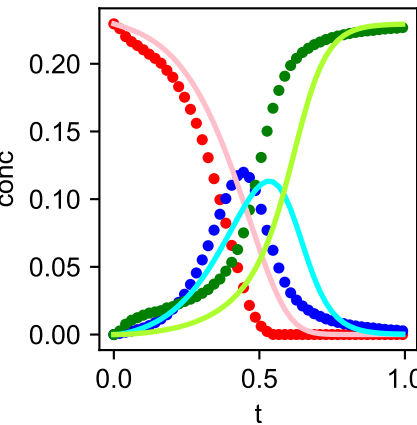
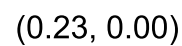
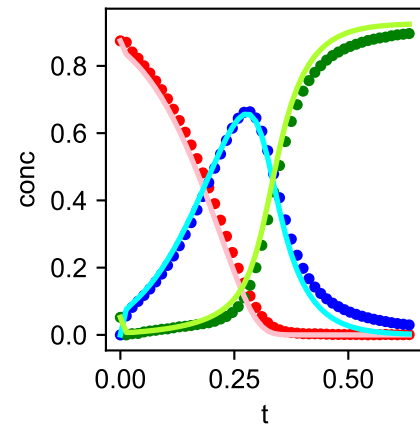
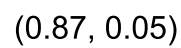
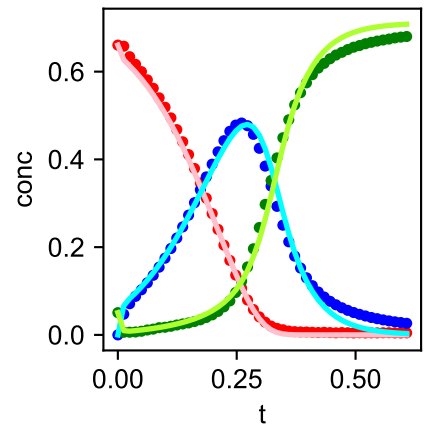
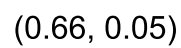
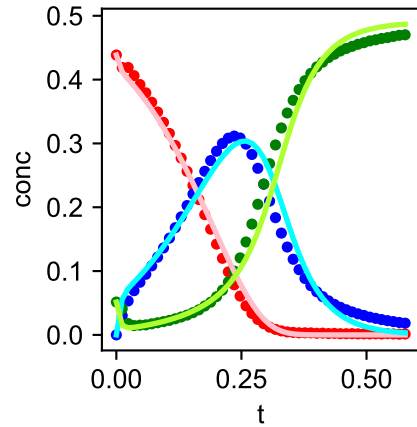
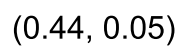
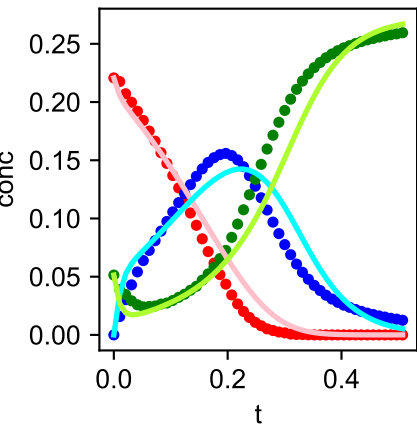
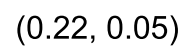
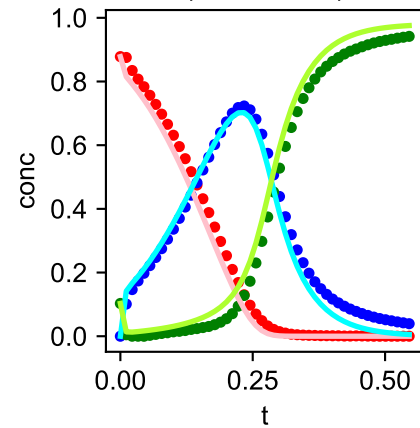
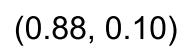
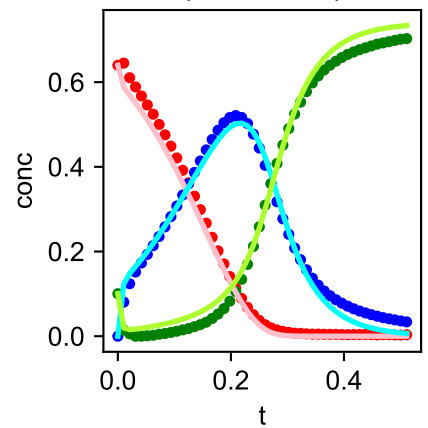
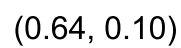
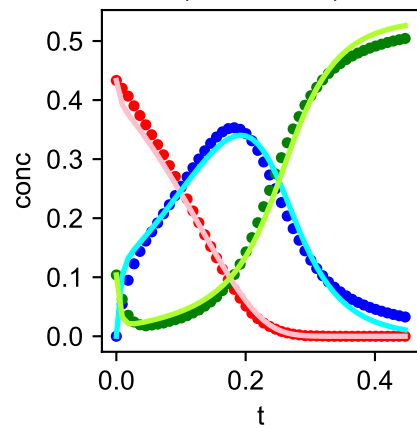
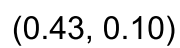
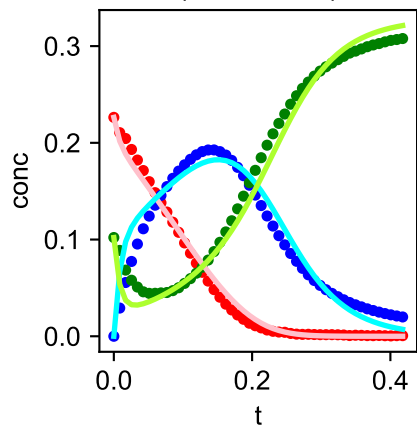
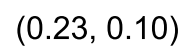
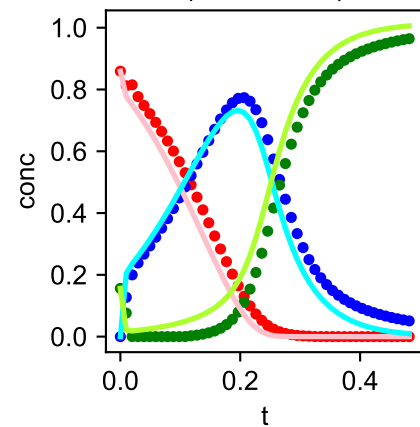
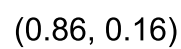
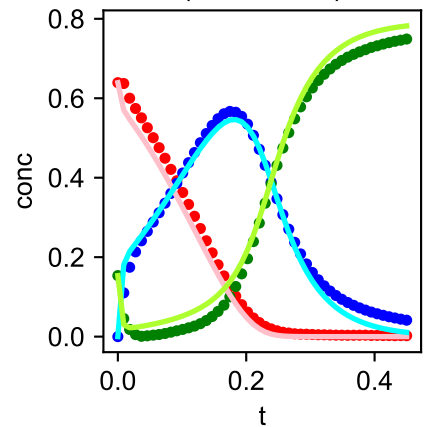
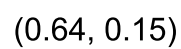
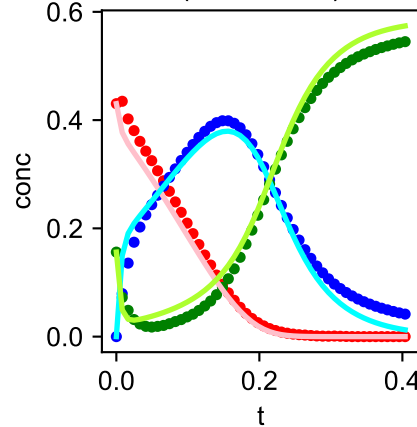
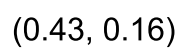
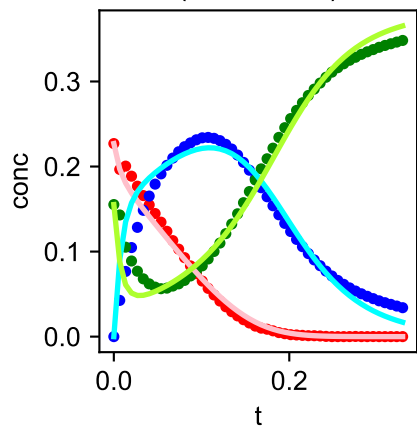
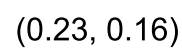
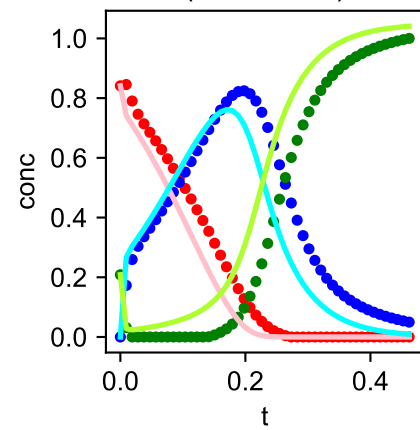
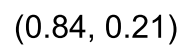
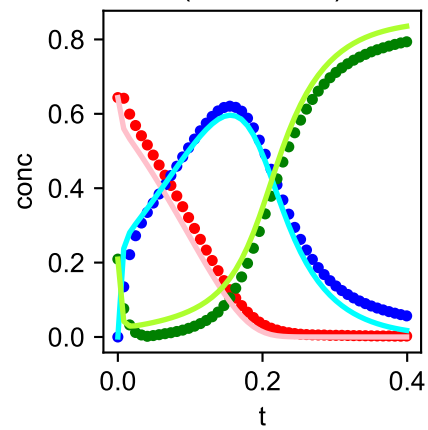
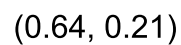
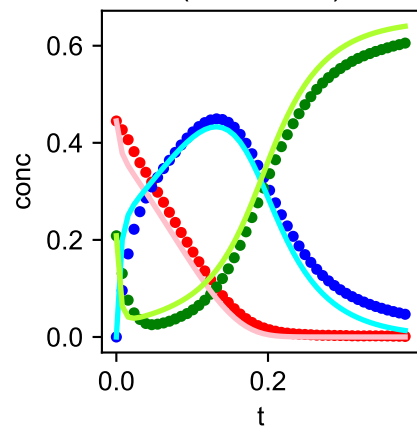
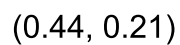
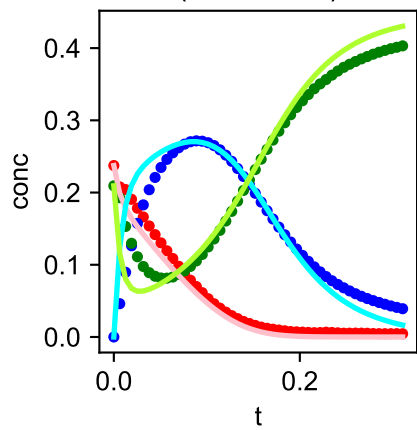
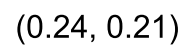
chem formula:  
['Mn+7', 'Mn+3', 'Mn+2', 'Mn+6', 'Mn+4']

k\_max = 1.00e+04  
k\_cut = 1.00e-02  
lam = 0.00e+00  
num\_eq = 8  
loss = 1.12e-02

MRSE train = 1.12e-02  
MESE test = 4.53e-02

( 1)	Mn+7 + Mn+2	-> Mn+3 + Mn+6	k = 175.12
( 2)	Mn+2 + Mn+6	-> 2 Mn+4	k = 9898.42
( 3)	Mn+2 + Mn+4	-> 2 Mn+3	k = 7641.99
( 4)	Mn+6	-> Mn+4	k = 1609.06
( 5)	2 Mn+4	-> 2 Mn+3	k = 9999.97
( 6)	Mn+3	-> Mn+2	k = 17.49
( 7)	Mn+7 + Mn+3	-> Mn+6 + Mn+4	k = 0.00
( 8)	Mn+7	-> Mn+6	k = 0.30




$$([\text{Mn}^{7+}]_0, [\text{Mn}^{2+}]_0)$$

—  $\text{sim}(\text{Mn}^{7+})$

— sim( $\text{Mn}^{3+}$ )

—  $\text{sim}(\text{Mn}^{2+})$

- $\exp(\text{Mn}^{7+})$

- $\exp(\text{Mn}^{3+})$

- $\exp(\text{Mn}^{2+})$