

R15-17

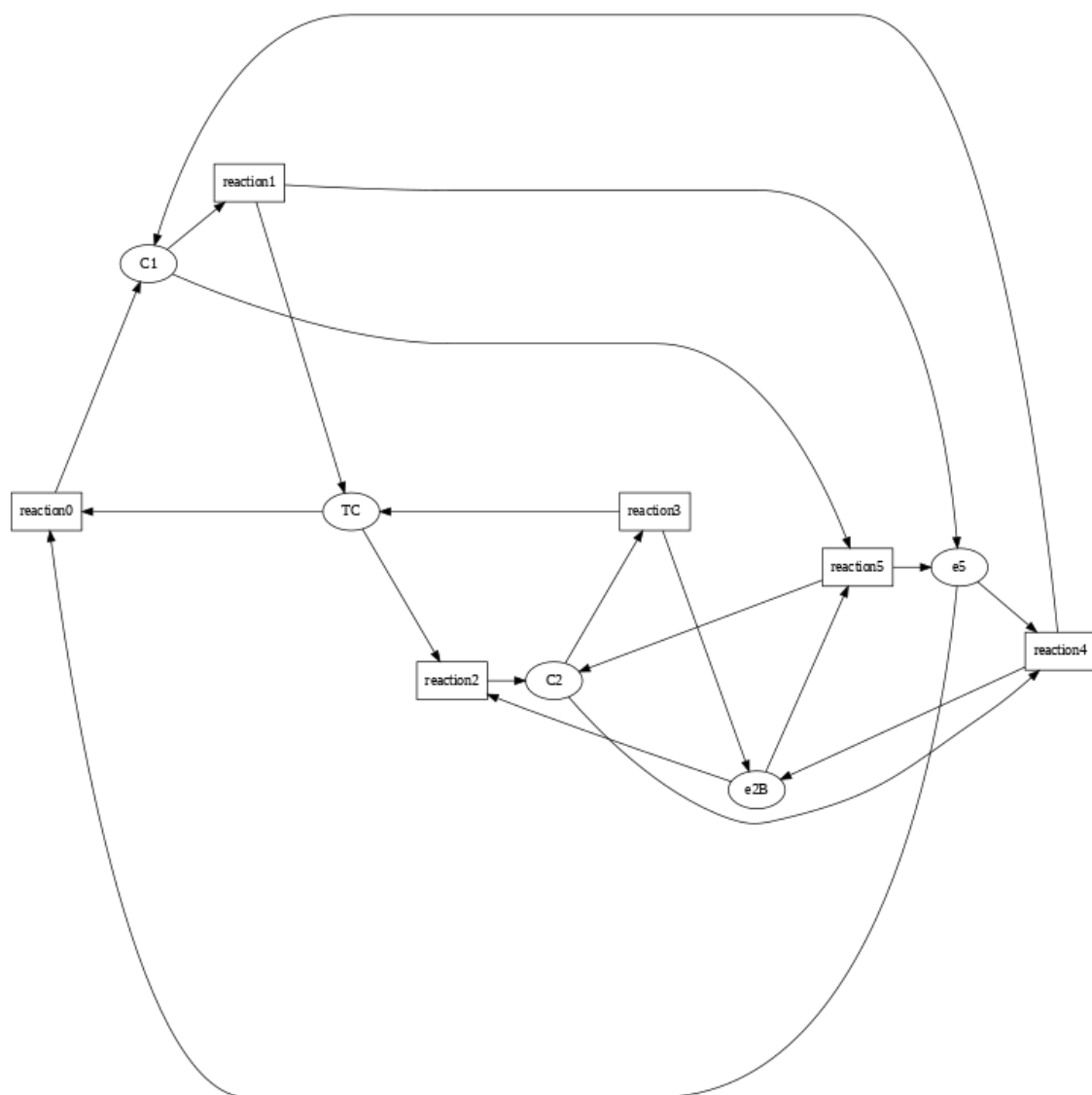
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```
[1]: TC+e5<=>C1.  
TC + e2B<=> C2.  
C2 + e5<=>C1 + e2B.
```

[1]:

```
[2]: draw_reactions.
```



[2]:

[3]: `list_ode.`

$$\begin{aligned}
e5_0 &= 0 \\
C2_0 &= 0 \\
e2B_0 &= 0 \\
C1_0 &= 0 \\
TC_0 &= 0 \\
\frac{de5}{dt} &= C1 + C1 * e2B - C2 * e5 - TC * e5 \\
\frac{dC2}{dt} &= C1 * e2B - C2 - C2 * e5 + TC * e2B \\
\frac{de2B}{dt} &= C2 - C1 * e2B + C2 * e5 - TC * e2B \\
\frac{dC1}{dt} &= C2 * e5 - C1 - C1 * e2B + TC * e5 \\
\frac{dTC}{dt} &= C1 + C2 - TC * e2B - TC * e5
\end{aligned}$$

[3] :

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