How to numerically solve a system of linear ODEs with an external, tabulated source

Dear Community,

I have a four compartment flow model described with the following system of linear ODEs:

$$\frac{dL\_{1}}{dt}\left(t\right)=\frac{L\_{2}\left(t\right)}{T\_{21}} - \frac{L\_{1}\left(t\right)}{T\_{12}}$$

$$\frac{dL\_{2}}{dt}\left(t\right)=\frac{L\_{1}(t)}{T\_{12}}- \frac{L\_{2}(t)}{T\_{21}}+ \frac{L\_{3}(t)}{T\_{32}}- \frac{L\_{2}(t)}{T\_{23}}+Q(t)$$

$$\frac{dL\_{3}}{dt}\left(t\right)=\frac{L\_{2}(t)}{T\_{23}}- \frac{L\_{3}(t)}{T\_{32}}+ \frac{L\_{4}(t)}{T\_{43}}- \frac{L\_{3}(t)}{T\_{34}}$$

$$\frac{dL\_{4}}{dt}\left(t\right)=\frac{L\_{3}\left(t\right)}{T\_{34}} - \frac{L\_{4}\left(t\right)}{T\_{43}}$$

The time constants are as follows:

T12 = 23.1481 d

T21 = 5.4537 d

T23 = 9.752 d

T32 = 14.9007 d

T34 = 8.8235 d

T43 = 363.7255 d

Initial conditions are as follows:

L1(0) = 2500.

L2(0) = 589.

L3(0) = 900.

L4(0) = 37100.

Simulation should run from 0 to 400 d.

Could you pls. help me, to solve it in Maple? As a solution I would need L1(t), L2(t), L3(t) and L4(t) both numerically and graphically. I used Maple to solve ODEs previously, but this time I don’t know, how to correctly specify the problem with an external, tabulated source. I’ve also prepared and attached a Maple worksheet, but did not try to run it yet. (FourCompartments.mw). The external Q(t) source for compartment 2 is attached as Source.xlsx.

Your kind help is appreciated in advance,

best regards

Andras