Technical

- ❑Implement Qt’s **Model/View** pattern: one backend model, many front view widgets.
  - View 1: model component functions, as a tree
  - View 2: model fit parameters, as a list
  - View 3: evaluation of the model in a 1D plot

- ❑Install**/**deploy and run as a stand-alone application.

Functionality

- ❑ Backend model accessible both through an *ipython* interpreter console and the View widgets.
- ❑ Simultaneous fit of multiple runs

Example: sample with relaxation times t1 < t2 < t3

- instrument *A* can detect t1 and t2 processes.

  $M_A = R_A \otimes [L(t1) + L(t2)]$ to fit against *data*$_A$

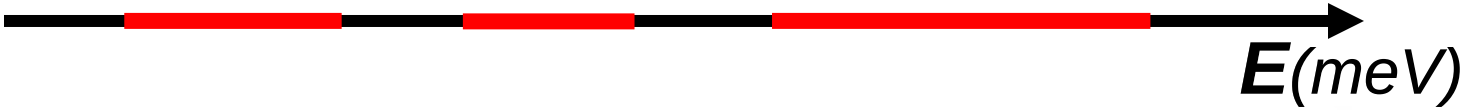
- instrument *B* can detect t2 and t3 processes.

  $M_B = R_B \otimes [L(t2) + L(t3)]$ to fit against *data*$_B$

Simultaneous fit of (M_A, *data*$_A$) and (M_B, *data*$_B$) with constrain $L(t2)$ being the same.

Functionality

- Fit in the time-domain as well as in the energy-domain.
- Domain as a set of points, allows for a discontinuous domain



- Simultaneous fit of runs in the time-domain along with runs in the energy-domain (mixing spin-echo with QENS)
- Plot the resolution-broadened model components
- Plot the Q-dependence of fit parameters