appVersion(4) = "0.99.6884.37264"

$$D(t, y, k) := \begin{bmatrix} -k_1 \cdot y_1 \\ k_1 \cdot y_1 - k_2 \cdot y_2 \\ k_2 \cdot y_2 \end{bmatrix} \qquad J(t, y, k) := \text{Jacob}\left(D(t, y, k), \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix}\right)$$

$k := \text{stack}(1, 0.4)$ $\quad AbsTol := 10^{-4}$ $\quad RelTol := 10^{-4}$

$y_0 := \text{stack}(1, 0, 0)$ $\quad t_{min} := 0$ $\quad t_{max} := 10$ $\quad N := 30$

$res := \text{gslrk1imp}(y_0, t_{min}, t_{max}, N-1, D, J)$

$\text{res} := \text{gslrk2imp}(y_0, t_{min}, t_{max}, N-1, D, J)$

$\text{res} := \text{gslrk4imp}(y_0, t_{min}, t_{max}, N-1, D, J)$

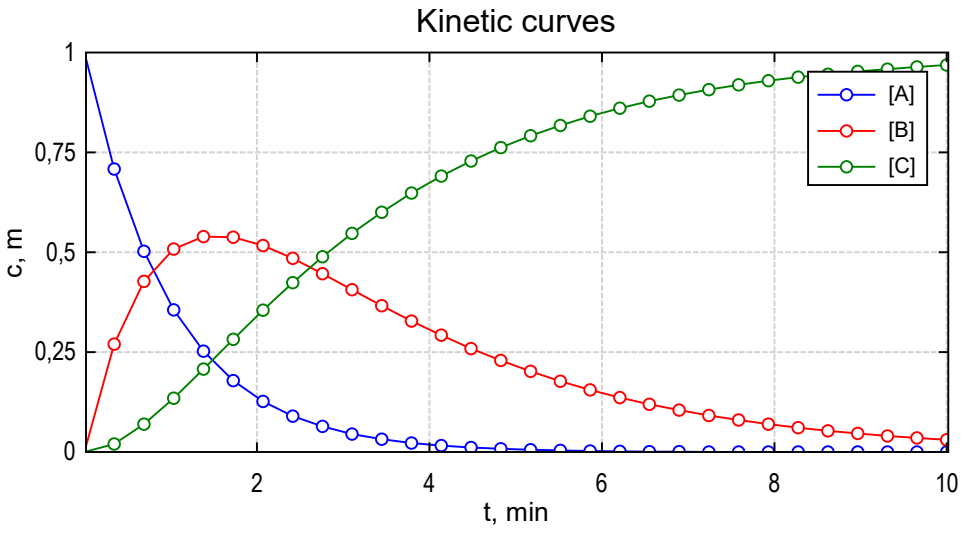
$\text{res} := \text{gslbsimp}(y_0, t_{min}, t_{max}, N-1, D, J)$

$\text{res} := \text{gslmsadams}(y_0, t_{min}, t_{max}, N-1, D, J)$

$\text{res} := \text{gslmsdbf}(y_0, t_{min}, t_{max}, N-1, D, J)$

$T := \text{col}(res, 1)$

$$ABC := \begin{cases} \text{augment}(T, \text{col}(res, 2)) \\ \text{augment}(T, \text{col}(res, 3)) \\ \text{augment}(T, \text{col}(res, 4)) \end{cases}$$



ABC