
Analysis of differential equations in Julia

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1 Simple examples of ODEs

@time 1+1

= 5

10 *

2 Simple examples of PDEs

1+2

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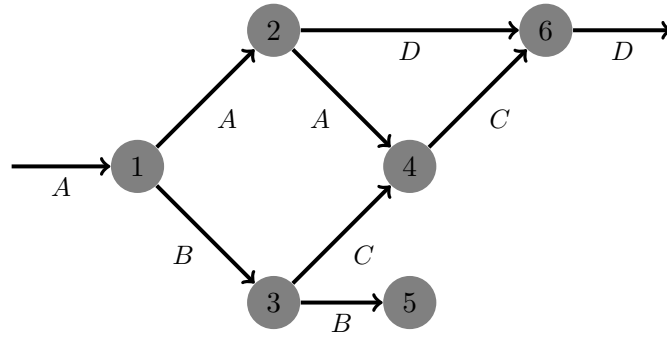


Figure 1: Example spacetime diagram of interacting individual histories. The edges of the graph represent individuals labeled by abstract types and the nodes represent interactions. The graph depicts the following history, in terms of the mathematical formalism, $I = \{A, B, C, D\}$: 1. A gives rise to A and B , which could be interpreted as an instance of cell division at interaction vertex 1. 2. Similarly, A gives rise to A and D . 3. B gives rise to B and C . 4. C eliminates A . 5. B ceases to exist. 6. D eliminates C .