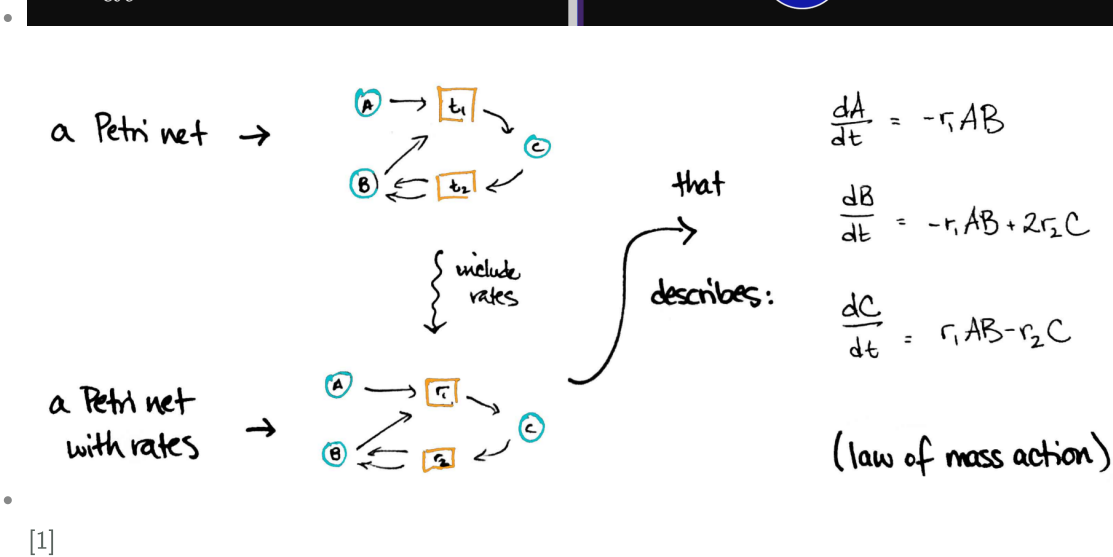
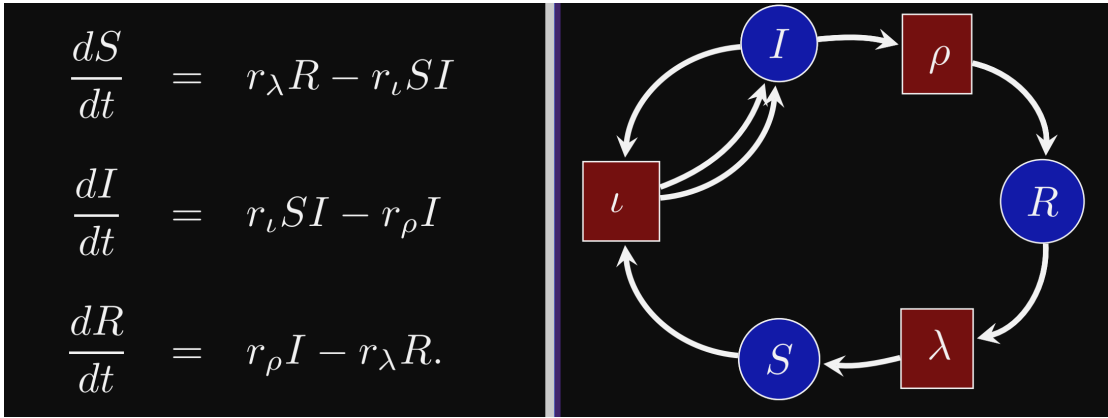


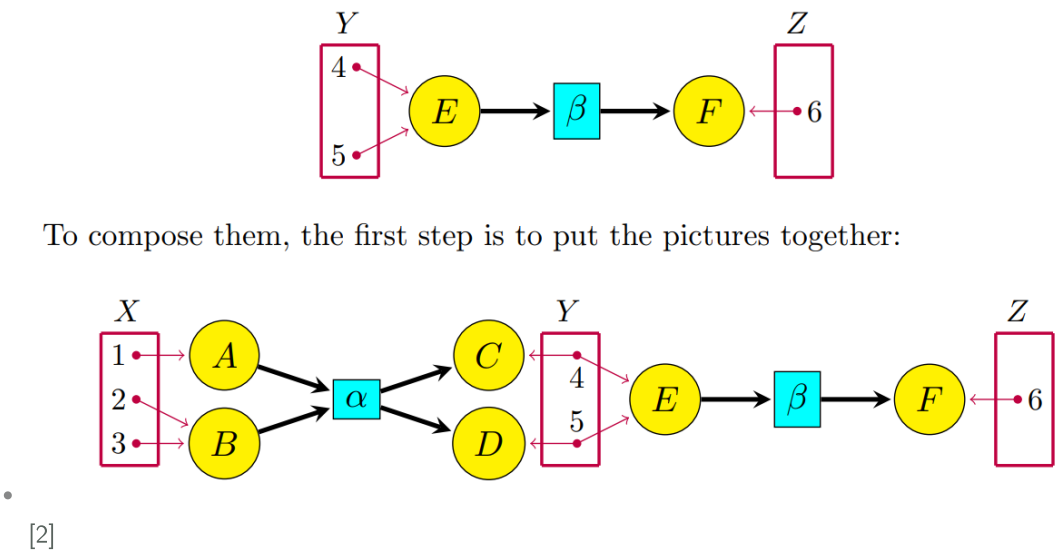
This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on March 29, 2024 5:33:35 PM, was last modified on May 17, 2026 7:36:37 PM, and was exported on September 7, 2026 3:09:53 PM.

Graph → polynomial ODE

- petri nets without open ends, *autonomous*



- open petri nets



Current note has 0 direct children and 0 total descendants.

- stem
 - subobjects of and functions on $\mathbb{R}^n, S^n, \mathbb{C}^n$ and its quotients $\Gamma \backslash \mathbb{R}^n, \Gamma \backslash \mathbb{C}^n$
 - ODEs in $\mathbb{R}^n \leftrightarrow$ Vector fields in $\mathbb{R}^n$
 - Graph → polynomial ODE

And it has 10 siblings.

- stem
 - subobjects of and functions on $\mathbb{R}^n, S^n, \mathbb{C}^n$ and its quotients $\Gamma \backslash \mathbb{R}^n, \Gamma \backslash \mathbb{C}^n$
 - ODEs in $\mathbb{R}^n \leftrightarrow$ Vector fields in $\mathbb{R}^n$
 - Constant of a flow in $\mathbb{R}^n$
 - Euler's iterative solution method for first order ODEs
 - Existence of integral curves of vector fields in $\mathbb{R}^n$
 - Fixed points
 - Flow of a vector field in $\mathbb{R}^n$
 - Graph → polynomial ODE
 - Gradient flows on $\mathbb{R}^n$
 - Hamiltonian vector fields in $\mathbb{R}^{2n}$ with standard symplectic form
 - Probability distribution of flow
 - Volume change by flows on $\mathbb{R}^n$

1. [What is Applied Category Theory? \(arxiv.org\)](#). ↗
2. [1704.02051.pdf \(arxiv.org\)](#). ↗