Sampling vs. Analysis Transitions

Focus on rates leaving *A*

Flux and crossing probability are identical.
Difference: conditional transition probability

From\To	A	B	C
A	—	$k_{A \to B}$	$k_{A \to C}$

$$k_{A \to B} = \Phi_{A_0} P(\lambda_{A_m} | \lambda_{A_0}) P(B | \lambda_{A_m})$$

$$k_{A \to C} = \Phi_{A_0} P(\lambda_{A_m} | \lambda_{A_0}) P(C | \lambda_{A_m})$$

In MSTIS, we sample the transition $A \rightarrow$ anything
These are the "sampling transitions."

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- "sampling transitions": actually used in the sampling, to minimize the amount of work we need to do.

- "analysis transitions," or just "transitions": contain all the individual reactions of interest, up to *N(N-1)* for *N* states.

- `TransitionNetwork` builds both