

Algebraic framework for epidemic modelling



Section 2 :

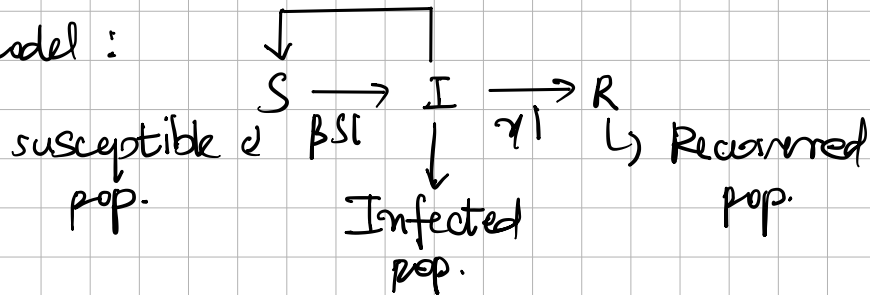
Categorical approach to this modelling has 3 components

① Semantics ② Syntax ③ Compositional rule

MAPS \nearrow \searrow RULE.

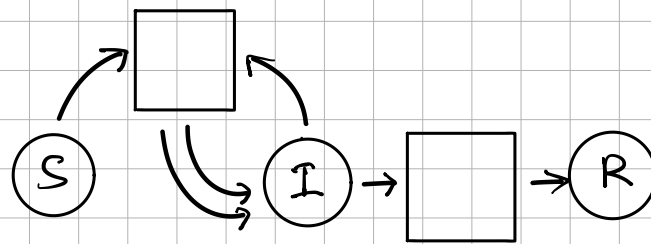
\nearrow OBJECTS

SIR model :



○ \rightarrow species

□ \rightarrow transitions or process



\Rightarrow Whole-grain Petri Net

