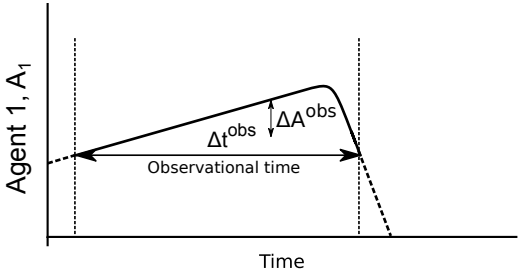
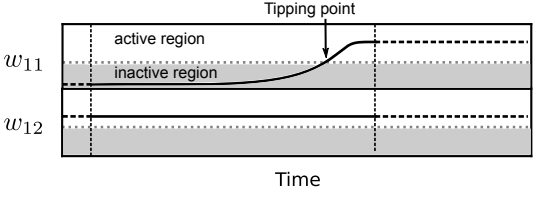
Observed dynamics



$$\underbrace{\frac{dA_1}{dt}}_{\text{Rate agent 1}} = \underbrace{F_{11}}_{\text{Process 1}} + \underbrace{F_{12}}_{\text{Process 2}}$$

Empirical factor $\frac{\Delta t^{obs}}{\Delta A_1^{obs}}$

Active processes



$$\underbrace{\frac{\Delta t^{obs}}{\Delta A_1^{obs}}\frac{dA_1}{dt}}_{\text{Dimensionless rate}} = \underbrace{\frac{\Delta t^{obs}}{\Delta A_1^{obs}}F_{11}}_{\text{weight},w_{11}} + \underbrace{\frac{\Delta t^{obs}}{\Delta A_1^{obs}}F_{12}}_{\text{weight},w_{12}}$$

Active Inactive Critical threshold