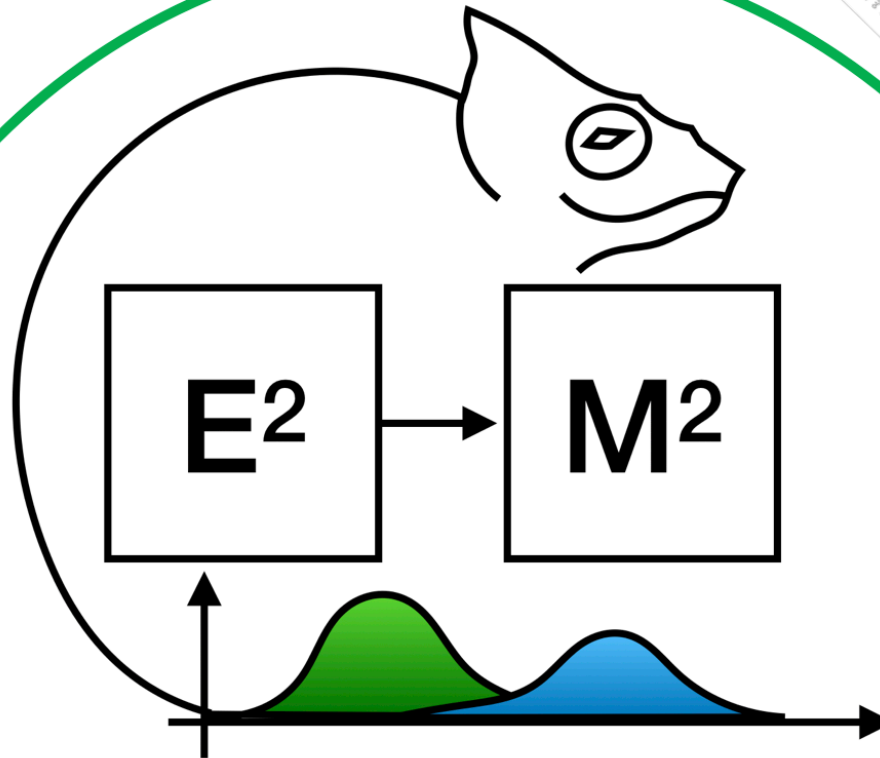
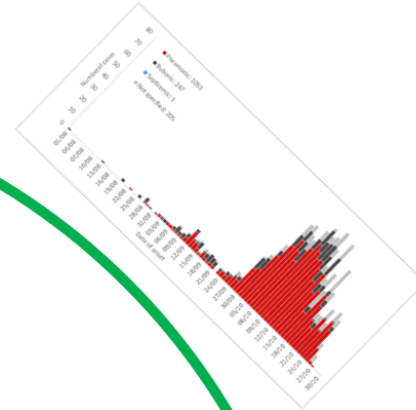


$$\begin{aligned}\frac{ds_i(t)}{dt} &= -aci(t, \vec{r})S(t, \vec{r}) + \mu^* - \mu s(t, \vec{r}) \\ \frac{de_i(t)}{dt} &= aci(t, \vec{r})S(t, \vec{r}) - \hat{e}e_i(t) - \mu e_i(t) \\ \frac{di_i(t)}{dt} &= \hat{e}e_i(t) - \mu i_i(t)\end{aligned}$$



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