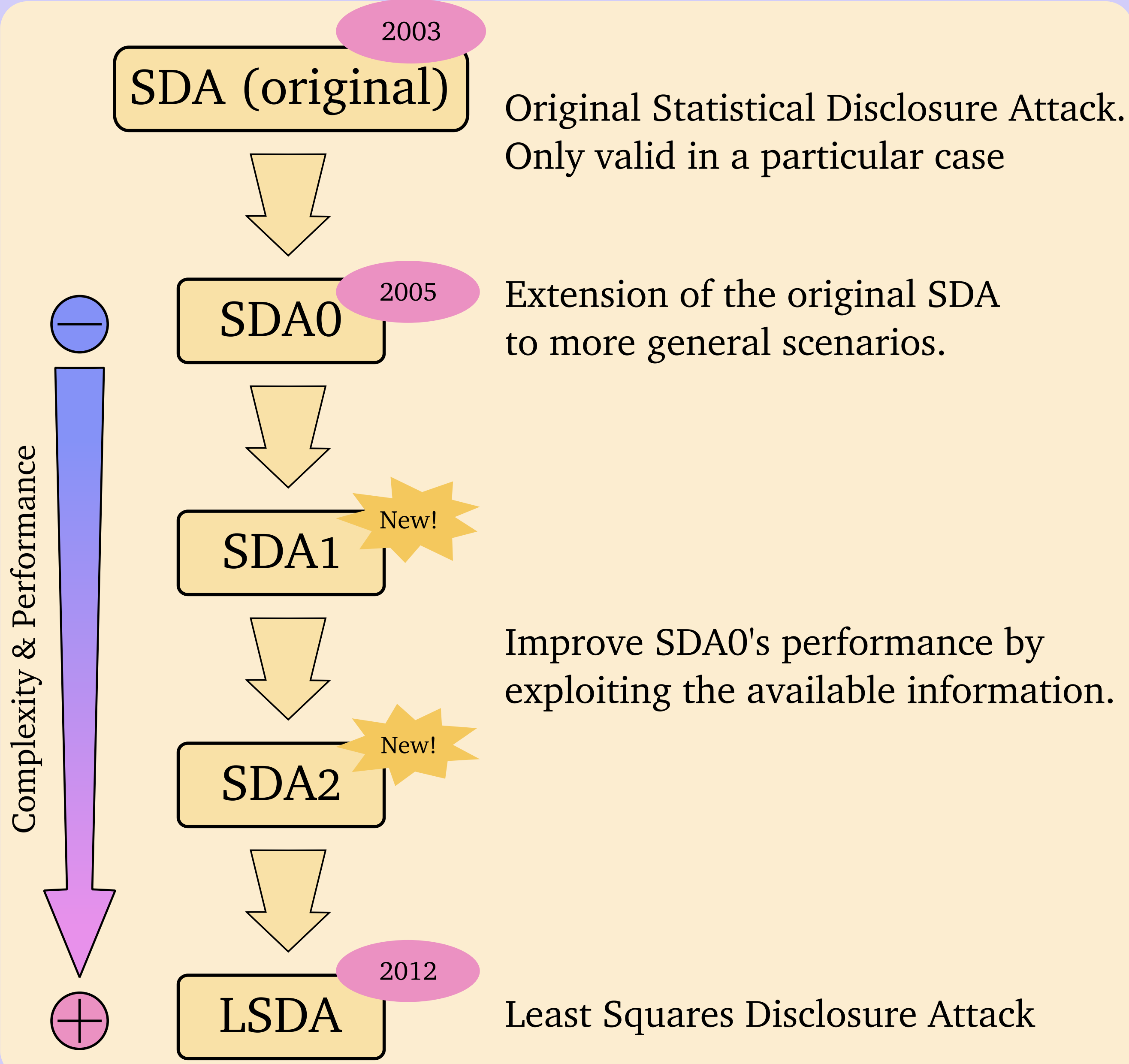
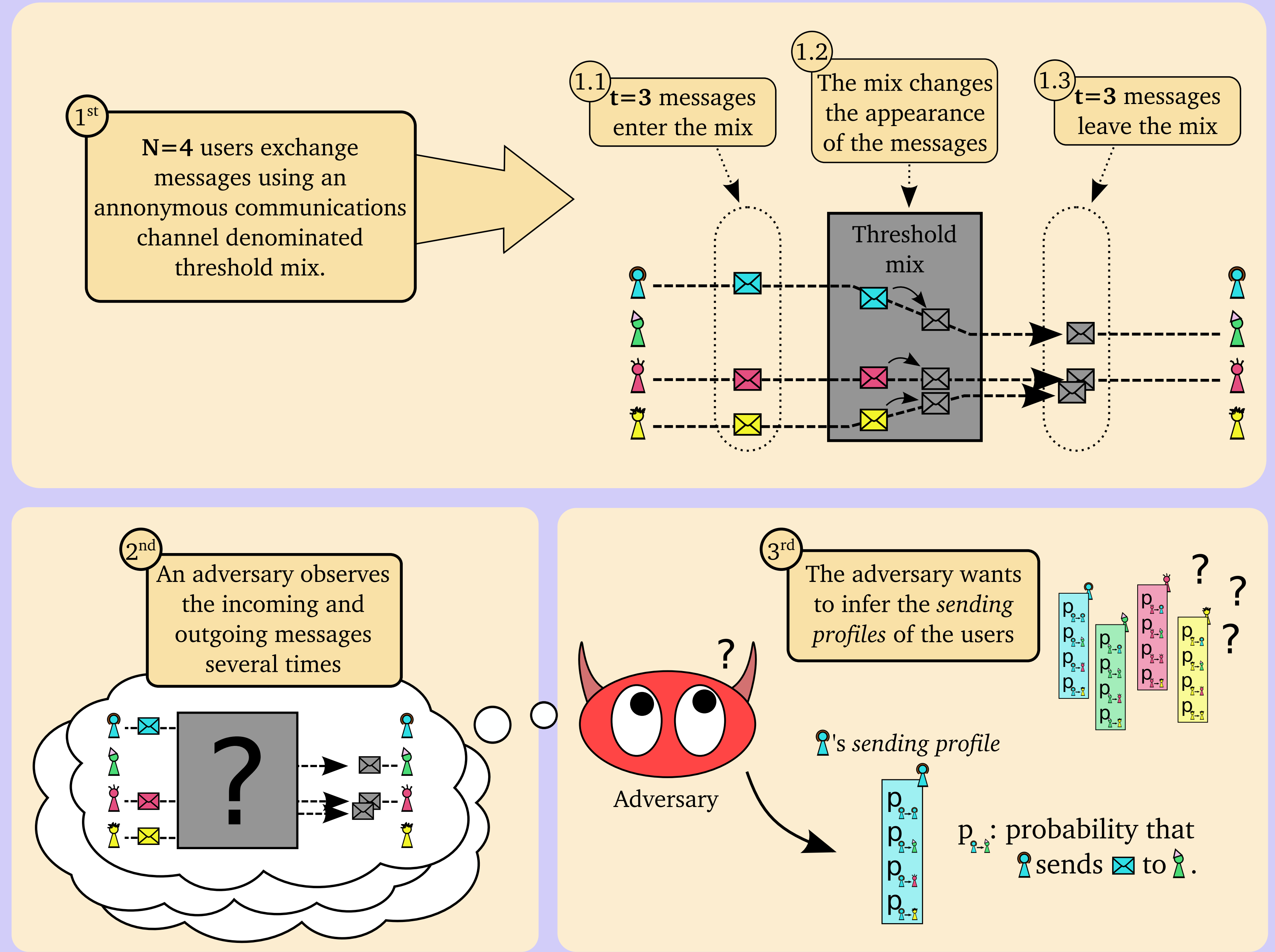


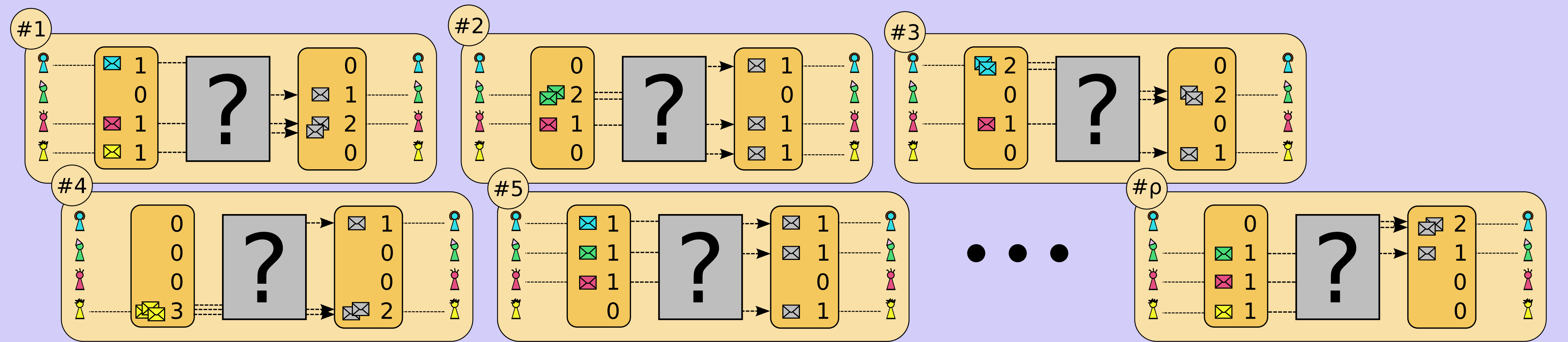
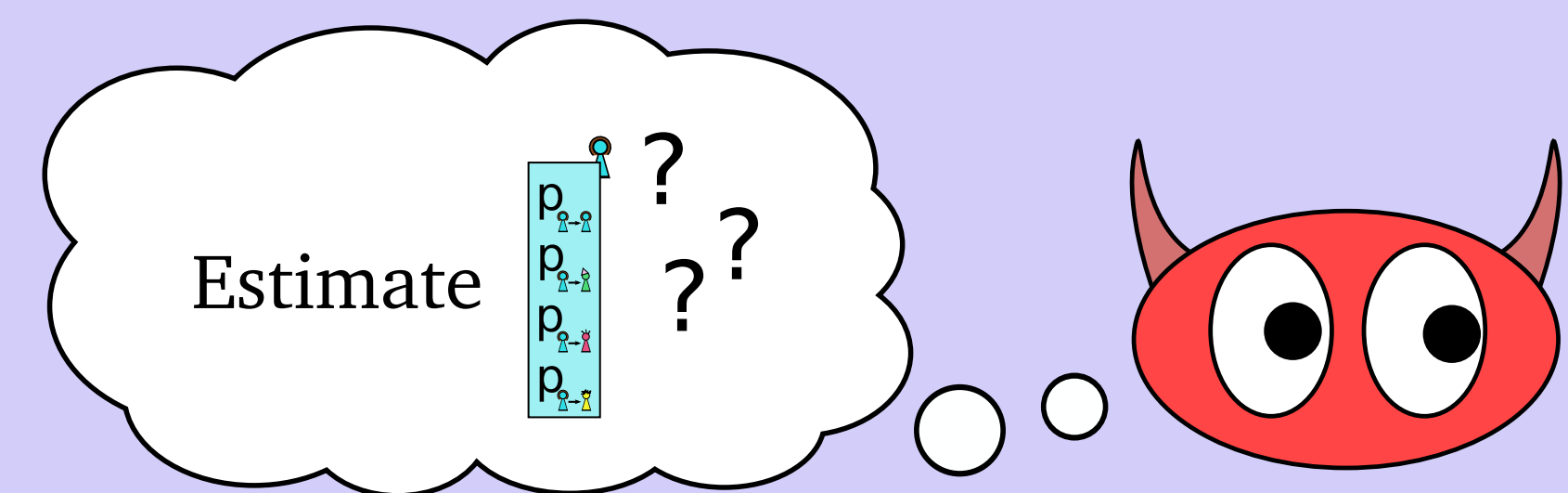
## Introduction to the family



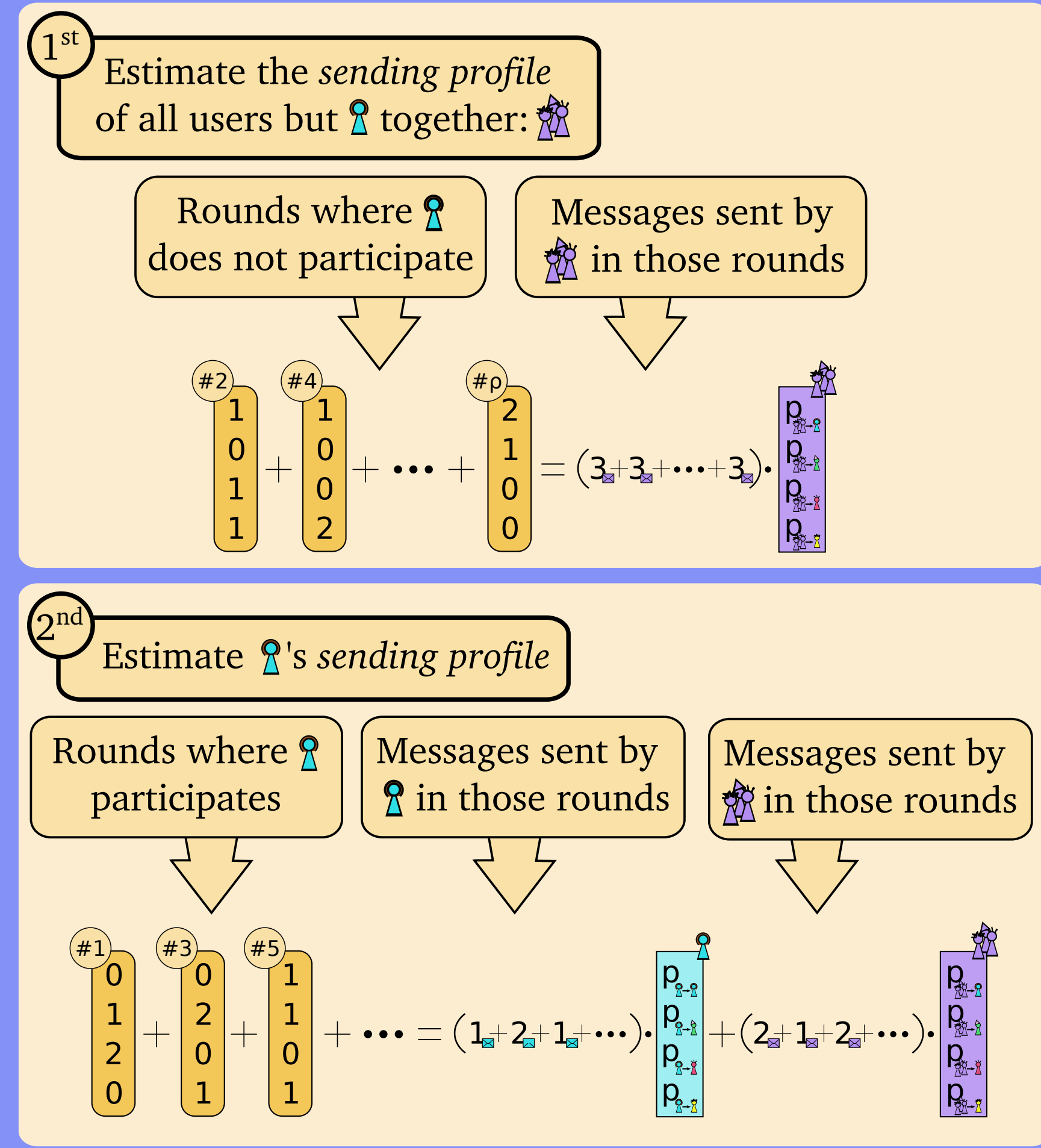
## System Model



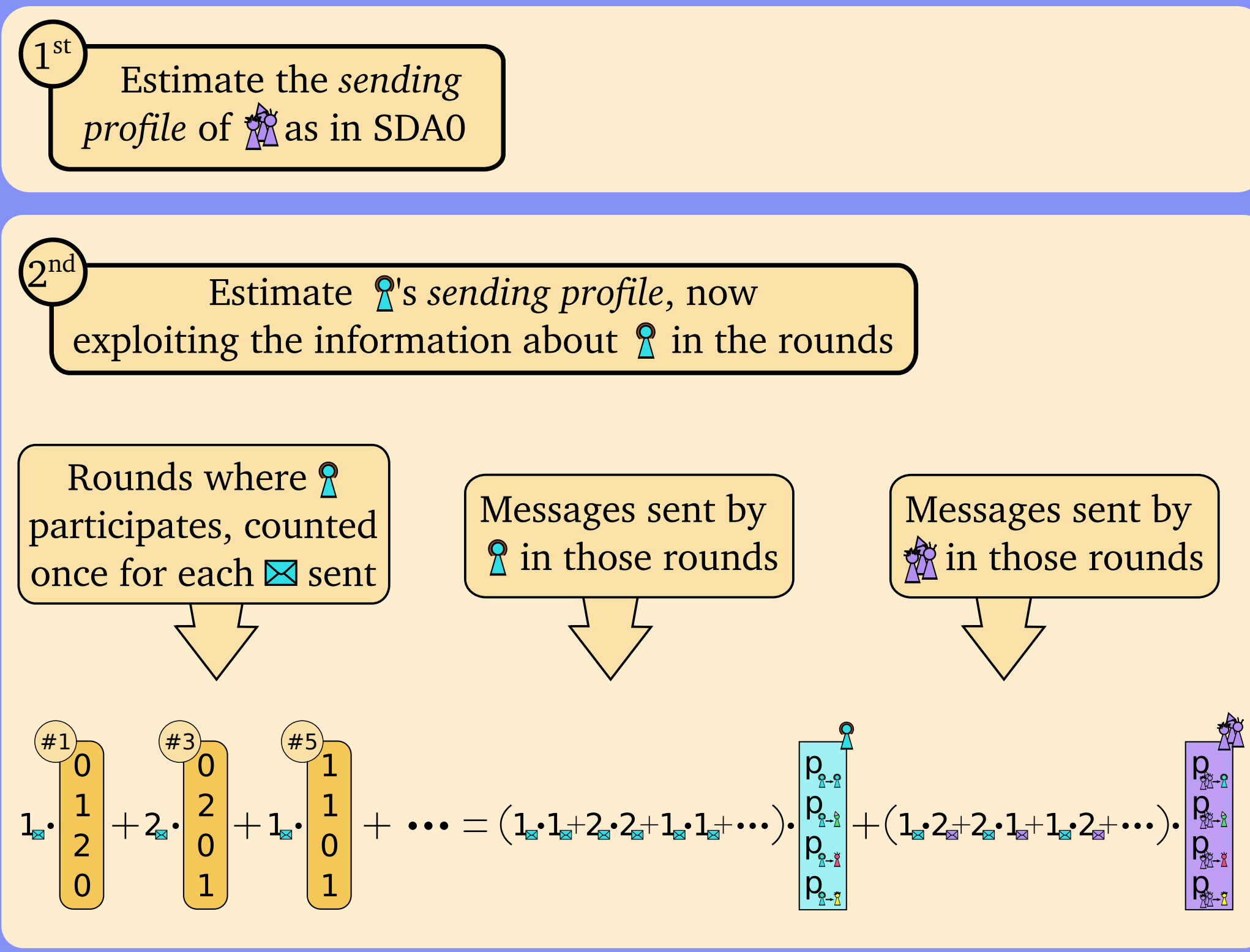
## Attacks and Results



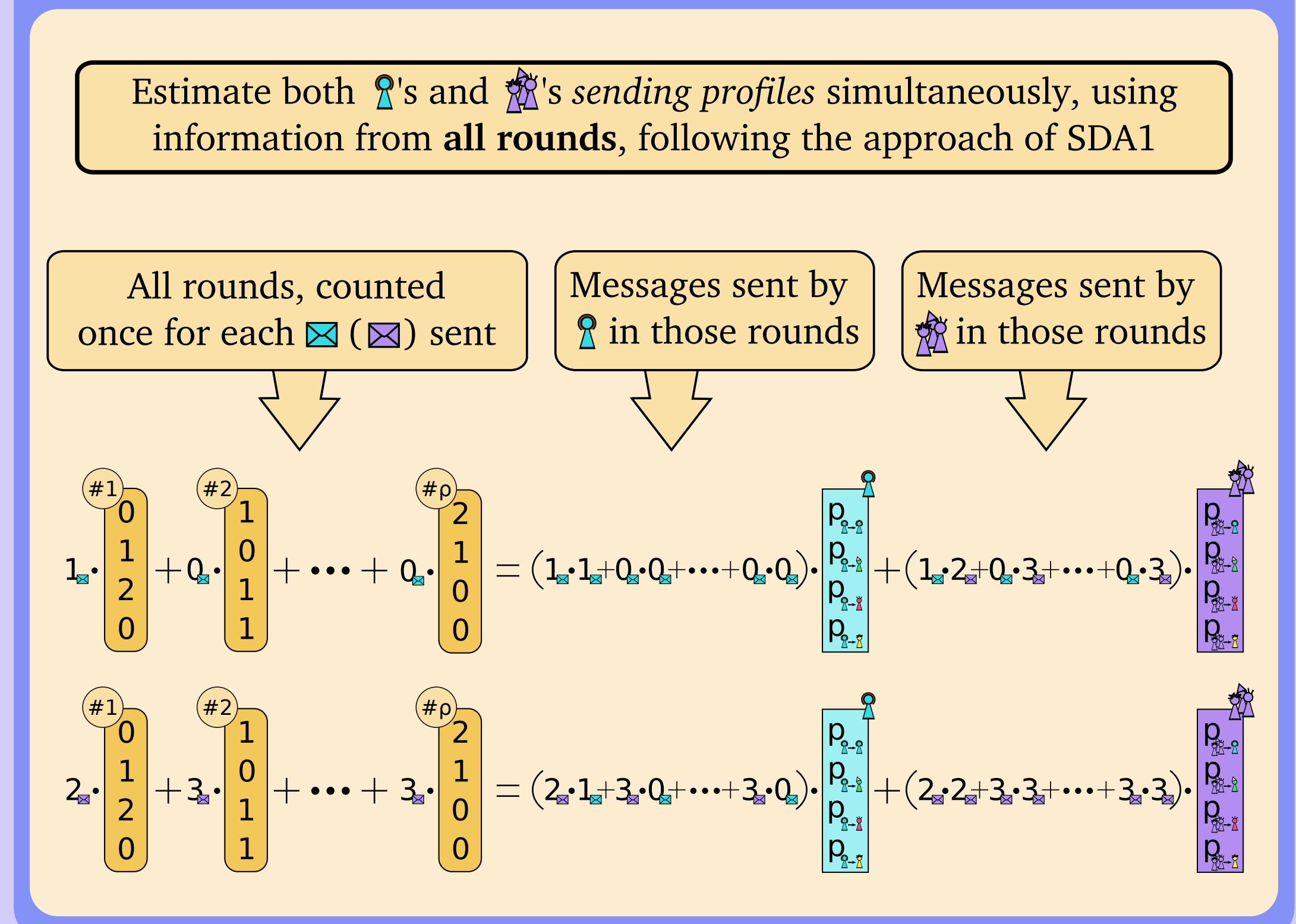
### SDA0



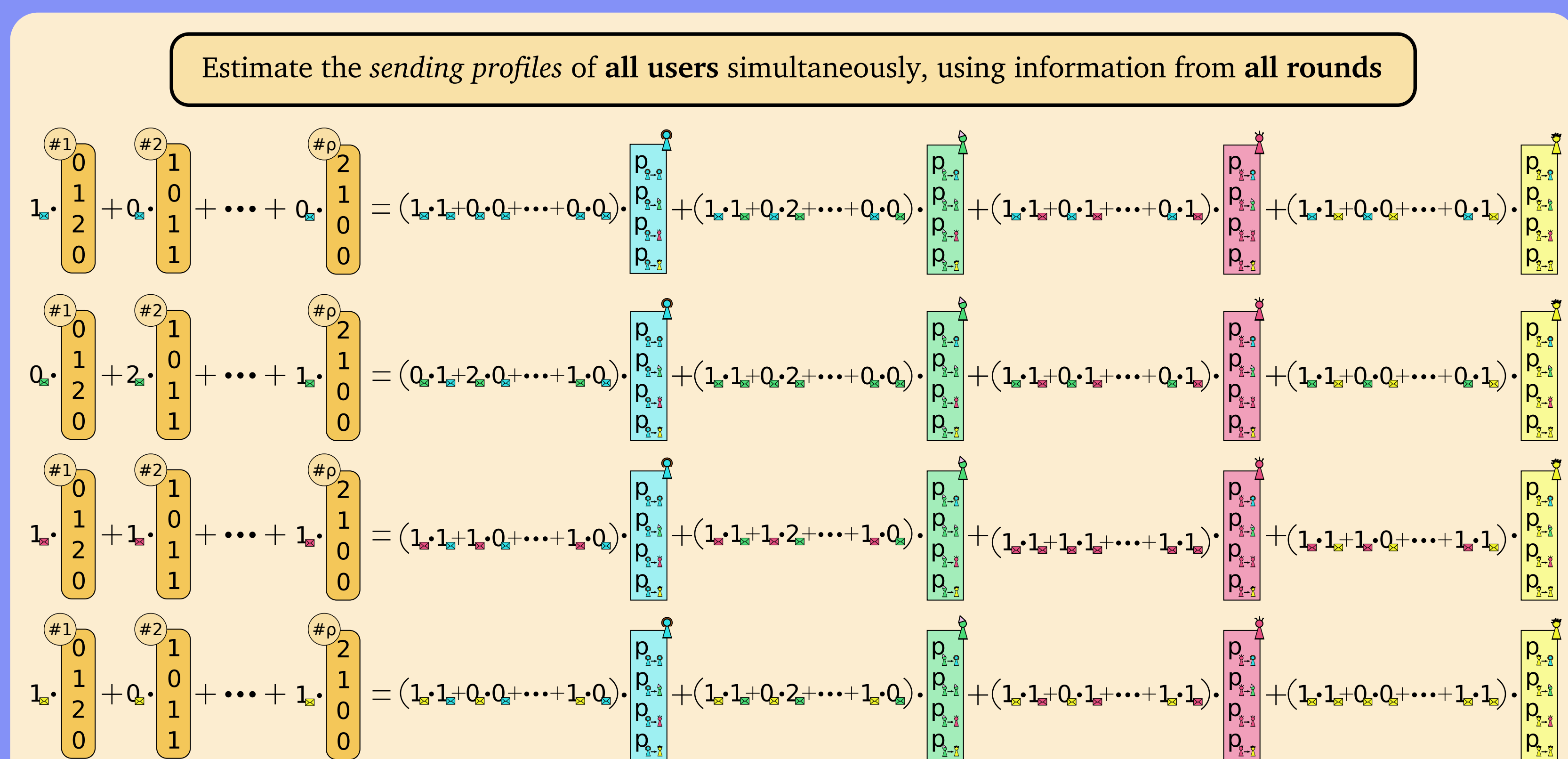
### SDA1



### SDA2



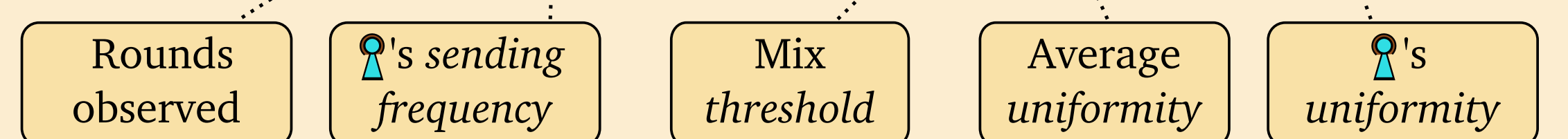
### LSDA



### Results

Mean Squared Error in the estimation of the sender profile of  $i$  in LSDA

$$MSE_i^{LSDA} \approx \frac{1}{\rho} \left\{ (f_i^{-1} - 1) \left( 1 - \frac{1}{t} \right) \bar{\mu} + \frac{f_i^{-1}}{t} \cdot \mu_i \right\}$$



Experimental results for all the attacks:

$\rho = 20.000$  rounds  
 $N = 100$  users  
 $f_i = 1/N$   
 $t = 10$  messages

