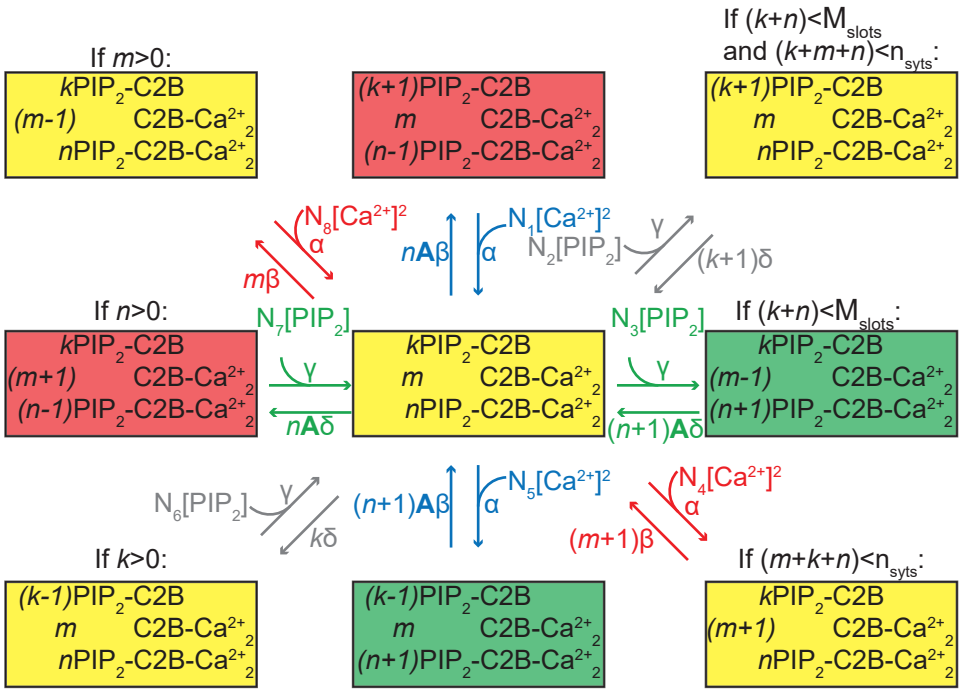
Figure 1 - figure supplement 2



Assumption for all states:
$(k+m+n) \leq n_{syts}$ and $(k+n) \leq M_{slots}$

In the middle state:

k: # of syts binding $PI(4,5)P_2$ but not Ca^{2+} (no dual binding)

m: # of syts binding Ca^{2+} but not $PI(4,5)P_2$ (no dual binding)

n: # of syts binding Ca^{2+} and $PI(4,5)P_2$ (dual binding)

: $k_{fuse}=L_+ \cdot f^{n-1}$

: $k_{fuse}=L_+ \cdot f^{n}$

: $k_{fuse}=L_+ \cdot f^{n+1}$

$N_1=k+1$; $N2=(n_{syts}-k-m-n)(M_{slots}-k-n)$; $N_3=m(M_{slots}-k-n)$; $N_4=(n_{syts}-k-m-n)$; $N_5=k$;

$N_6=(n_{syts}-(k-1)-m-n)(M_{slots}-(k-1)-n)$; $N_7=(m+1)(M_{slots}-k-(n-1))$; $N_8=(n_{syts}-k-(m-1)-n)$.