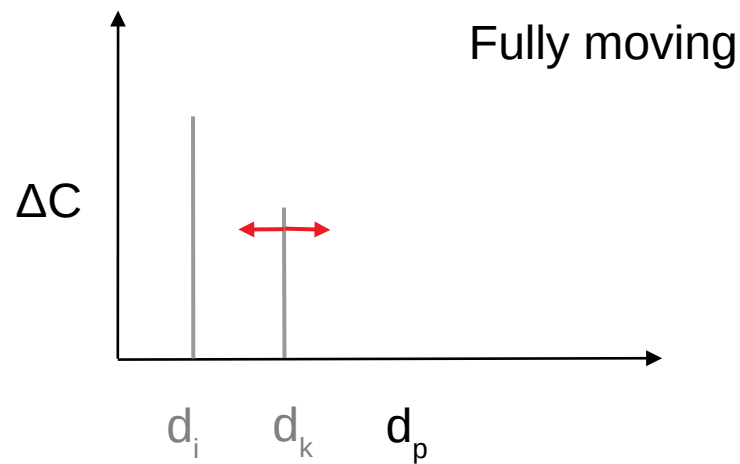


+

- limited numerical diffusion
- Max 4 equations for new volume + diameter

-

- Pits & peaks in the PSD from merging bins

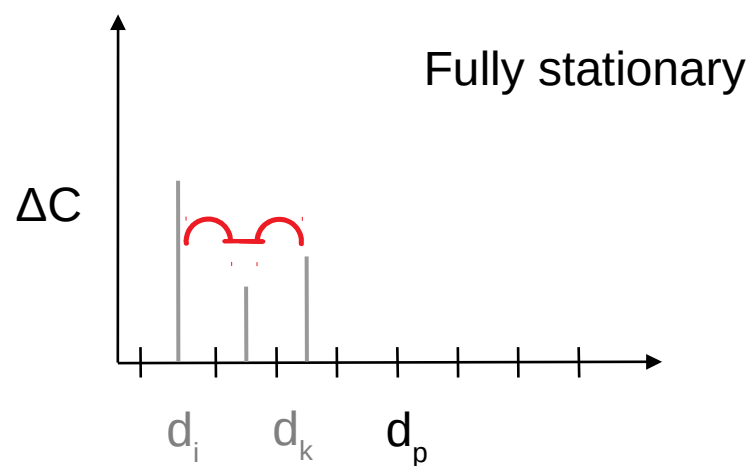


+

- Exact growth
- Exact coagulation
- Max 4 equations for new volume + diameter

-

- Number of bins is not controlled

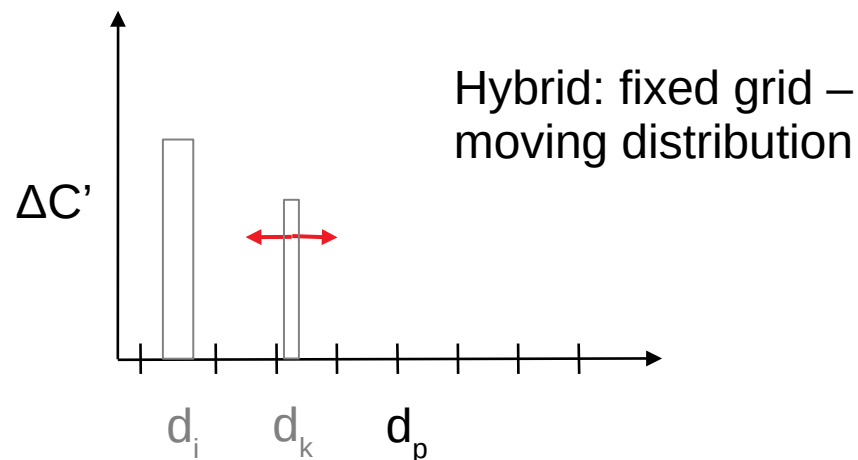


+

- Max 5 equations for new volume + diameter

-

- Numerical diffusion



+

- Very limited numerical diffusion
- Fixed number of bins
- No pits or peaks

-

- Equations turn to integrals
- New volume: educated guess needed

$V_1 + V_2$ (new Vol from Coag or Growth):

- 1) Make guess on new limit (upper or lower)
 - 2) Calculate the other limit
 - 3) Check whether the limits are good
 - 4) Limits bad → go back to step one
- Limits OK → done