

## With chemistry window

Transport (main clock  $n$ )



**Chemistry sub-steps**

( $N_r$  steps of  $\Delta t_{\text{reaction}}$ )



Transport (main clock  $n+1$ )

## Without chemistry window

Transport (main clock  $n$ )



Transport (main clock  $n+1$ )

Transport:  $\Delta t_{\text{transport}}$

Chemistry:  $N_r \times \Delta t_{\text{reaction}}$