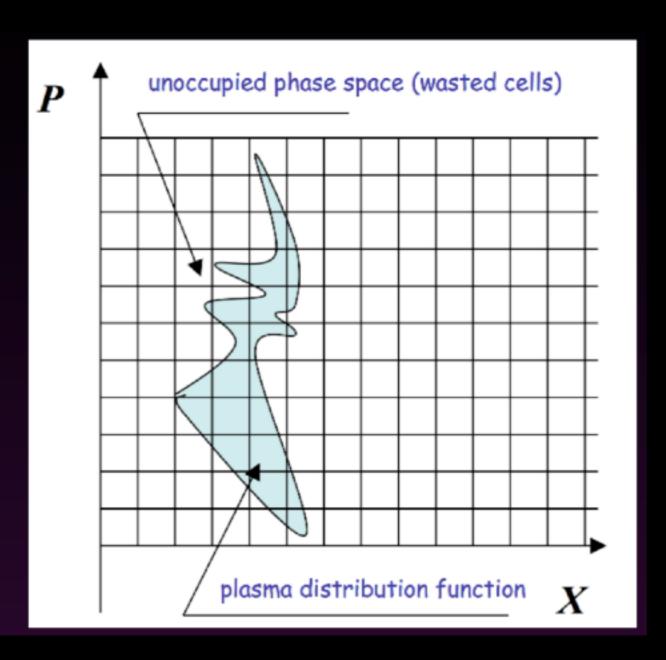
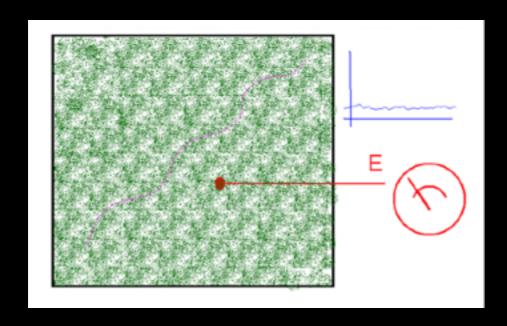
Solving the Vlasov-Maxwell equations

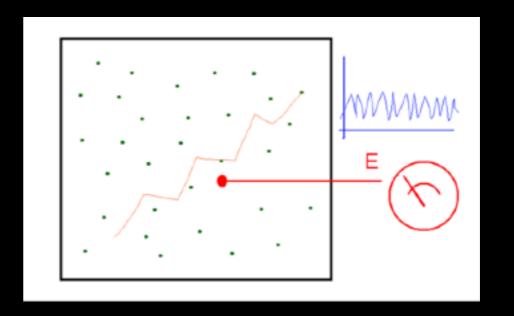
Two options:

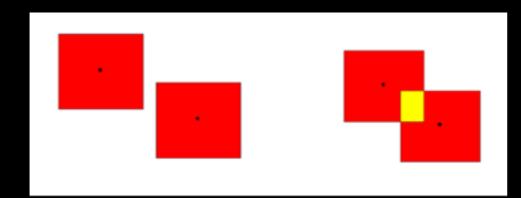
- Discretize the Vlasov equation on a grid in phase space:
- computationally expensive to solve in 6+1 dimensions
- 2. how to determine the boundaries of the grid in momentum space?
- 3. what if *f*<0?
- Sample the phase space density with particles, and follow them as LAGRANGIAN tracers.



Macro-particles vs. real particles







$$\Lambda = \frac{E_{th}}{E_{pot}} = \frac{4\pi\epsilon_0 akT}{q^2}$$

