Mach based methods

17D Formulation

Complessite del color delle forze

Coulomb interaction

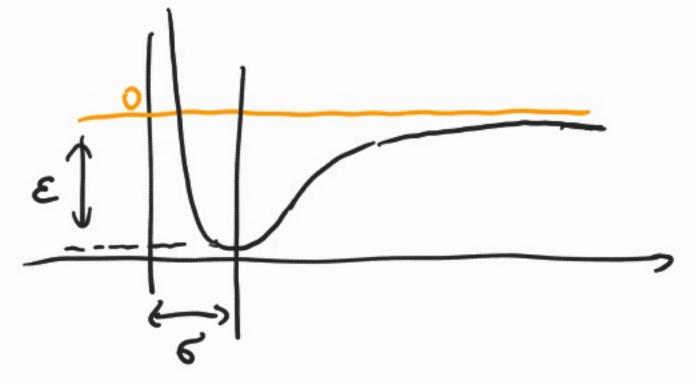
$$U(11 \times_{i} - \times_{3}11) = \frac{9.92}{4\pi \epsilon_{o}} \frac{1}{11 \times_{i} - \times_{5}11}$$

Short range

Leunerd-Jones potential

$$O\left(\|x_{i}-x_{3}\|\right)=4\varepsilon\left(\frac{\alpha}{\|x_{i}-x_{3}\|}\right)$$

$$\left(\left(\frac{6}{\|x_i-x_3\|}\right)^6-1\right)$$



$$F_{i} = -\nabla_{x_{i}} \vee (x_{1} - - - x_{N})$$

$$= 24 \mathcal{E} \sum_{i \neq 3} \left(\frac{\partial}{\|x_{i} - x_{3}\|}\right)^{6} / 4$$

$$= 2\left(\frac{\partial}{\|x_{i} - x_{3}\|}\right)^{6} / (x_{i} - x_{3})$$

$$V_{co} = \begin{cases} 0 & \text{se } |x_i - x_j| \\ 0 & \text{se } |x_i - x_j| \end{cases}$$

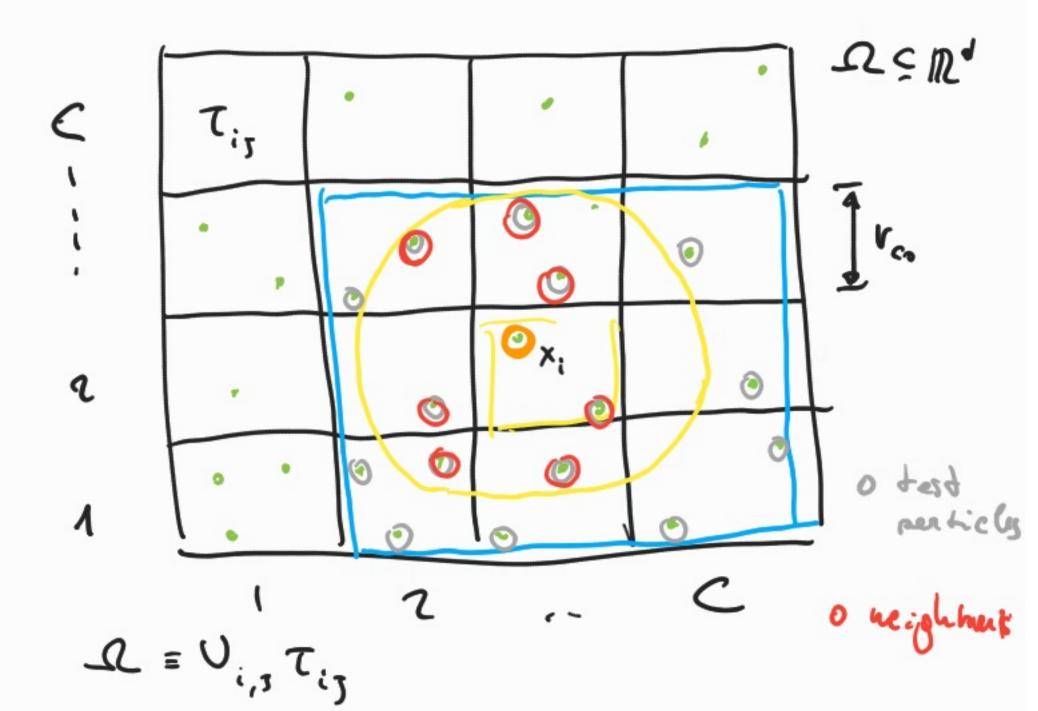
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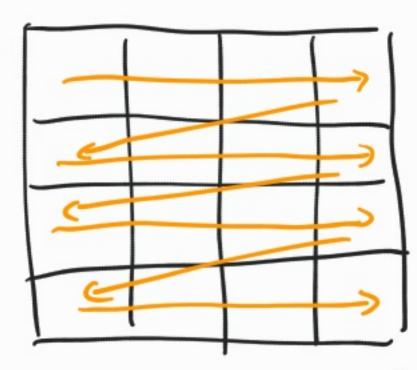
V. ~ 1.5 €

First heighbour sworch Q(N°)

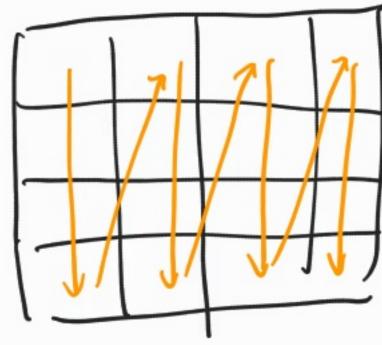
Linked-all olgozishme



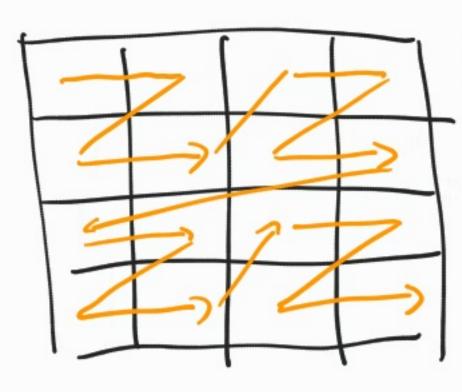
Liuved - all elso rithm



vow-major ordaring



colun-magor ordering



7-Oldering

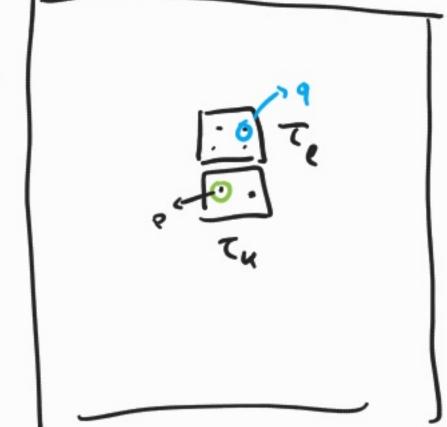
for
$$k = 1 - - P_{K}$$

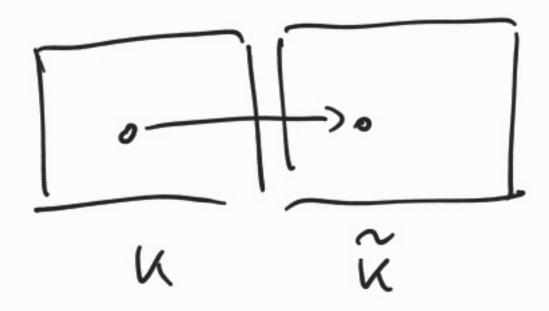
for $k = 1 - - P_{K}$

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Compute $k = 1 - P_{K}$



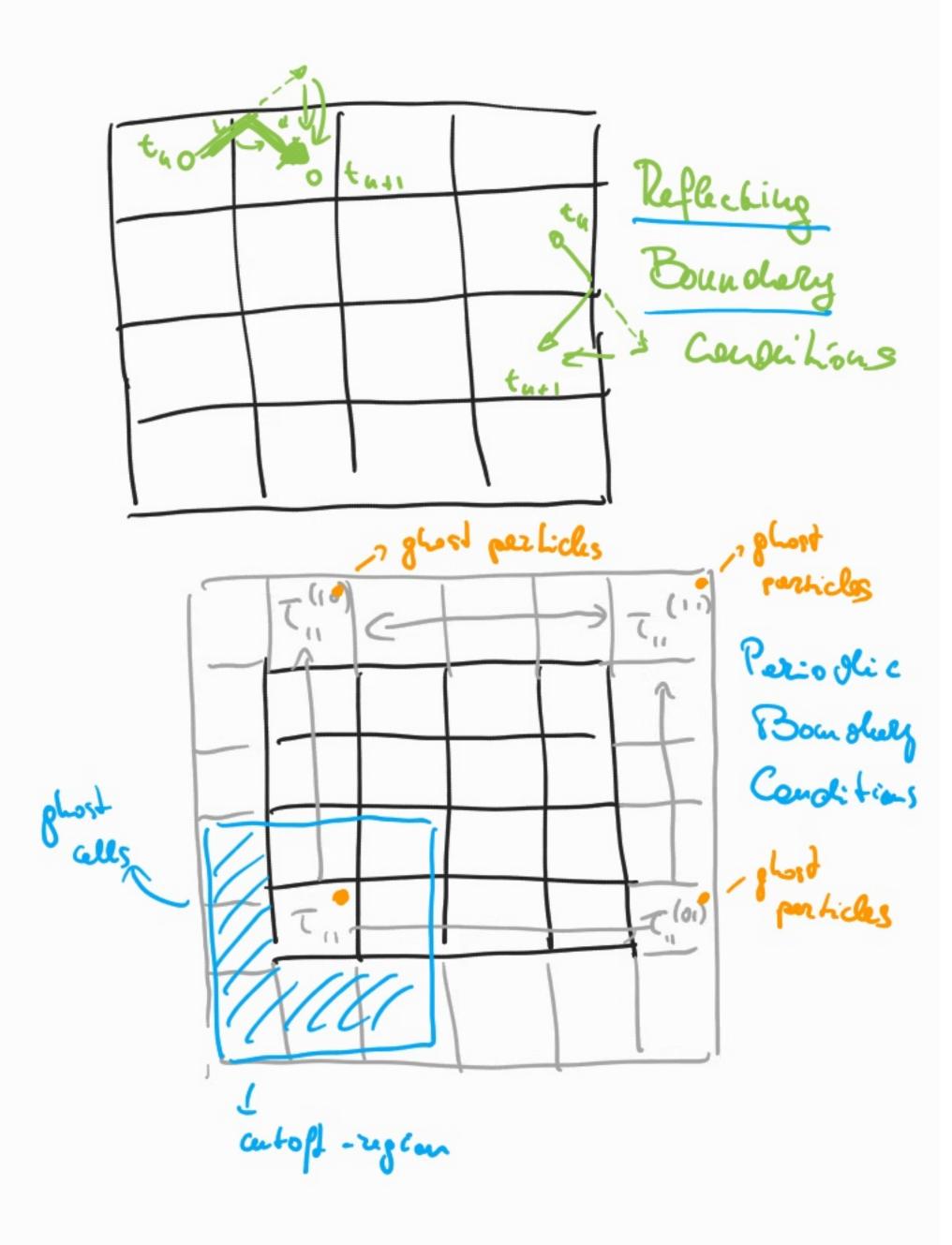


moving perhicles

Boundary souditions

· Reflecting Boundley couch'tions

· Poriodic Bondery conditions



Assignement #2 s etr' B.: 40 × 40 per Liches Bz: 160 * 40 packides

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