## Point mass

$$(/ij') = (/(xi, yi, zi)) = G_{i} \frac{m_{i}}{Y_{ij'}}$$

$$Y_{ij'} = [(x_{i'} - x_{j'})^{2} + (y_{i'} - y_{j'})^{2} + (z_{i'} - z_{j'})^{2}]$$

$$+ (z_{i'} - z_{j'})^{2} - (z_{i'} - z_{j'})^{2}$$

$$\Gamma_{ij} = \Gamma(x_i, y_i, z_i) = \nabla^2(y_i) = \begin{cases} \partial_{xx} U \partial_{xy} U \partial_{xz} U \\ \partial_{xy} U \partial_{yz} U \partial_{yz} U \\ \partial_{xz} U \partial_{yz} U \partial_{zz} U \end{cases}$$

$$\partial_{\alpha\beta}U_{ij} = \int_{Gm_{i}} \frac{3(\alpha_{i}-\alpha_{ij})^{2}}{Y_{ij}^{5}} - \frac{1}{Y_{ij}^{5}} \frac{7}{Y_{ij}^{5}} \frac{7}{Y_{i$$

$$\alpha = x, y, z$$