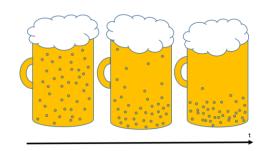


$$\min_{\rho, \vec{w}} \quad \frac{1}{2} \|\rho - \widehat{\rho}\|_{L_2(\Sigma)}^2 + \frac{\beta}{2} \|\vec{w}\|_{L_2(\Sigma)}^2$$





$$\partial_t
ho =
abla^2
ho -
abla \cdot (
ho ec{w}) +
abla \cdot (
ho
abla V_{ ext{ext}}) +
abla \cdot \int_{\Omega}
ho(ec{x})
ho(ec{x}')
abla V_2(|ec{x} - ec{x}'|) dec{x}'$$

