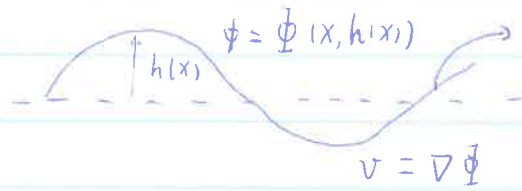


10/26

Benoit Pausader / Alexandru Ionescu

Assume $\rho \equiv c \equiv 0$

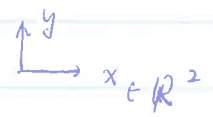


Interface $\begin{cases} \llbracket P \rrbracket = \sigma H \\ \partial_t h + v_x \nabla_x h = v_y \end{cases}$

equilibrium

$\Delta \phi = 0$

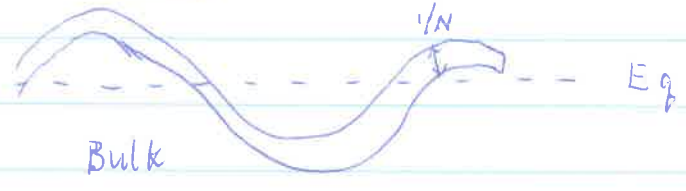
Water $\begin{cases} \partial_t v + v \cdot \nabla v = -\nabla p - g e_y \\ \operatorname{div} v = 0, \quad \operatorname{curl} v = 0 \\ v \rightarrow 0 \quad \text{at } \infty \end{cases}$



$H = \operatorname{div}_x \left(\frac{\nabla h}{(1 + |\nabla h|^2)^{3/2}} \right)$ mean curvature

Linear disp

$\Lambda = (g|\nabla| + \sigma|\nabla|^3)^{1/2}$



Linear unknown

$U = (g - \sigma \Delta)^{1/2} h + i|\nabla|^{1/2} \phi$

