$$\hat{P}$$
 = pressure predicted by CNN \hat{V} = Velocity predicted from \hat{P}

$$\hat{P} = \phi(V_0)$$

$$\hat{J} = V_0 - \nabla \hat{P} \Rightarrow V_0 - \nabla \phi(V_0)$$

$$V_L = V_clocity target/Label$$

Criterion:

+

(3)
$$\|\nabla \cdot (V_0 - \nabla \phi(V_0))\|^2 \Rightarrow \|\nabla \cdot \mathring{V}\|^2$$
 } Remains any divergence of the predicted velocity field $(\nabla \cdot \mathring{V})$

- 1) need batch size × (P) × H×W for input batch Size × (P) × H×W for Labels
- 28-3 need batch Size x (Vx/Vy/p) x HxW for input batch Size x (VLx/VLy) x HxW for Labels