

$$\nabla J = \nabla P + \nabla E$$

$$\nabla E:$$

$$\underline{v} \mapsto \nabla E(\underline{v}) \text{ easy}$$

$$\nabla P:$$

$$\langle \nabla P(\underline{v}) | \cdot \rangle =$$

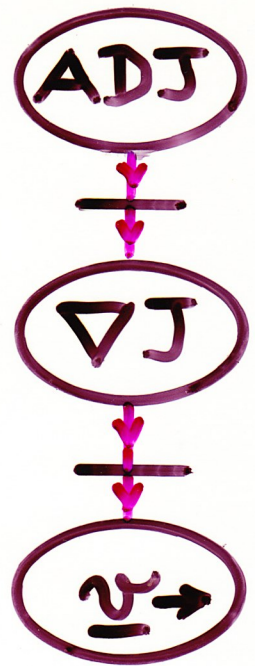
$$= \int_{G_0} \frac{\partial q^\dagger(\underline{v})}{\partial \underline{v}} \cdot (\cdot) dG_0$$

Hence minimising elements \underline{v}^m satisfy:

$$2. \operatorname{Re} \left[\int_{G_0} \frac{\partial q^\dagger(\underline{v})}{\partial \underline{v}} \cdot (\underline{v} - \underline{v}^m) dG_0 + \langle \nabla E(\underline{v}) | \underline{v} - \underline{v}^m \rangle \right] \geq 0$$

$$\forall \underline{v} \in \mathcal{U}_{\text{ad}} \text{ s.t. } \|\underline{v} - \underline{v}^m\| \leq a_m$$

How to find \underline{v}^m by an iterative procedure?



ALGORITHM

