A/D OPERATORS

AGGREGATION (RESTRICTION)

- $\mathbf{A} : <^9 \;\; ! \;\; <^3$

DISAGGREGATION (PROLONGATION)

- $\mathbf{D} : <^3 \;\; ! \;\; <^9$
- $\mathbf{DA} = \mathbf{I}$

NATURAL CHOICES

- $$\mathbf{A}_{9£3} = \begin{bmatrix} \mathbf{e} & 0 & 0 \\ 0 & \mathbf{e} & 0 \\ 0 & 0 & \mathbf{e} \end{bmatrix}$$

  $$[\mathbf{p}_1^T \quad \mathbf{p}_2^T \quad \mathbf{p}_3^T]\,\mathbf{A} = [\mathbf{p}_1^T\mathbf{e} \quad \mathbf{p}_2^T\mathbf{e} \quad \mathbf{p}_3^T\mathbf{e}]$$

- $$\mathbf{D}_{3£9} = \begin{bmatrix} \mathbf{s}_1^T & 0 & 0 \\ 0 & \mathbf{s}_2^T & 0 \\ 0 & 0 & \mathbf{s}_3^T \end{bmatrix}$$

  $$[»_1 \quad »_2 \quad »_3]\,\mathbf{D} = [»_1\mathbf{s}_1^T \quad »_2\mathbf{s}_2^T \quad »_3\mathbf{s}_3^T]$$