

$$\begin{bmatrix} (e_a \cdot e_a) & 0 & (e_a \cdot e_b) \\ 0 & (e_{ab} \cdot e_{ab}) & 0 \\ (e_a \cdot e_b) & 0 & (e_b \cdot e_b) \end{bmatrix}$$

$$v^a \boldsymbol{e}_a + v^{ab} \boldsymbol{e}_{ab} + v^b \boldsymbol{e}_b$$

$$B^{aab}\boldsymbol{e}_a\wedge\boldsymbol{e}_{ab}+B^{ab}\boldsymbol{e}_a\wedge\boldsymbol{e}_b+B^{abb}\boldsymbol{e}_{ab}\wedge\boldsymbol{e}_b$$