

$$line : 2\langle \mathcal{P}(\mathcal{A}+\mathcal{L}_{\mathcal{G}})e, e \rangle = 2\beta \int_0^1 e^T P \frac{d^2}{dx} e + 2\alpha \int_0^1 e^T P e + 2 \int_0^1 e^T P G L e = 2\beta e^T P \frac{d}{dx} \begin{pmatrix} 1 \\ 0 \end{pmatrix} - 2\beta \int_0^1 \frac{d}{dx} e^T P \frac{d}{dx} e + 2\alpha \int_0^1 e$$

norm<sub>s</sub>tr :