

$$\text{So } A\gamma(v_0, \dots, v_n) \\ = \sum \epsilon_\sigma A\gamma(v_{\sigma(1)}, \dots, v_{\sigma(n)})$$

$$\text{Similarly, } S\gamma \in \text{Sym}(\frac{\otimes^n T_0(V)}{T_0^4(V)})$$

Q Q: how does defining \otimes on $\bigwedge_j^i \times T_L^R$

define a bilinear product

Natural way:

on $T(V) \times T(V)$

Well,

Given

$$\alpha = (\alpha_1, \dots)$$

similarly for Λ ?

$$\alpha \wedge \beta \in \wedge^{r+s}(V)$$

$$\text{as } \alpha \otimes \beta \in \bigwedge_0^{r+s}$$

A 0-form is a map $f: \mathcal{S} \rightarrow \mathbb{R}$