· We wish to prove $\forall x(\forall \phi) = 0$ $\forall x(\forall \phi) = \underbrace{\exists c_{j} a}_{\exists j} \partial_{2} \phi$ $= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} + \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} + \xi_{ij} \partial_{2} \partial_{j}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{j} \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{j} \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{2} - \xi_{ij} z \partial_{2}) \phi}_{= \underbrace{\exists (\xi_{ij} z \partial_{2} -$

CS

• We wish to prove $\vec{\sigma} \times (\vec{\tau} \phi) = 0$ using NP4 a N\$5 TX (Top) = 1 2 E E [ij2] hi agi (ha ha agi) = In ElijaThi agi agi p

since EighT is anti-symmetric in i, j and $\frac{\partial^2 b}{\partial g^i \partial g^j}$ is clearly symmetric in i, j than the contraction is zero