

$$\underbrace{i\mathbb{R}^D}_{\triangleleft} \underbrace{\mathbb{C}}_{\otimes} \underbrace{\mathbb{C}}_{\otimes} \underbrace{\mathbb{C}}_{\otimes} \underbrace{\mathbb{C}}_{\otimes} \mathcal{F}_n^\mu$$

$$\mathcal{F}_n^\mu = \underbrace{\mathbb{C}}_{\otimes} \underbrace{\mathbb{C}}_{\otimes} \mathbb{C}$$

$$\overset{*}{\partial}_m^\mu = \partial_{-m}^\mu$$

$$\partial_m^\mu \times \partial_n^\mu = \partial_{m+n}^\mu \eta^{\mu\mu}$$

$$\partial_n^\mu \times \partial_{-n}^\mu = \eta^{\mu\mu}$$

$$\partial_n^0 \times \overset{*}{\partial}_n^0 = \partial_n^0 \times \partial_{-n}^0 = \eta^{00} = -1$$