$$L^{\cdot} \triangle L^{\cdot} = \frac{L^{|}\triangle L^{|} \;\Big|\; L^{|}\triangle L^{-}}{L^{-}\triangle L^{|} \;\Big|\; L^{-}\triangle L^{-}} \quad \frac{\frac{a \,|\, b}{c \,|\, d}}{\frac{a \in L^{|}\triangle L^{|} \;|\; b \in L^{|}\triangle L^{-}}{c \in L^{-}\triangle L^{|} \;|\; d \in L^{-}\triangle L^{-}}}$$

$$L^{\cdot} \triangle L^{\cdot} = \left\{ \frac{a \,|\, 0}{0 \,|\, d} \right\} = \frac{L^{|}\triangle L^{|} \;\Big|\; 0}{0 \;\Big|\; L^{-}\triangle L^{-}}$$

$$L^{\cdot} \triangle L^{\cdot} = \left\{ \frac{0 \,|\, b}{c \,|\, 0} \right\} = \frac{0 \;\Big|\; L^{|}\triangle L^{-}}{L^{-}\triangle L^{|} \;\Big|\; 0}$$

$$L^{\cdot} \otimes L^{\cdot}\triangle L^{\cdot} \xrightarrow[\text{even}]{} L^{\cdot}$$

$$x \,|\, y \;\otimes \frac{a \,|\, b}{c \,|\, d} \;\mapsto\; x a + y c \;|\; x b + y d$$

$$\underbrace{L^{\cdot}\triangle \mathbb{K}}\otimes L^{\cdot} \longrightarrow L^{\cdot}\triangle L^{\cdot}$$

$$\underbrace{L^{|}\times L^{-}\triangle \mathbb{K}}\otimes \overbrace{L^{|}\times L^{-}} = \underbrace{L^{|}\triangle \mathbb{K}\otimes L^{|}}_{\ni a} \times \underbrace{L^{-}\triangle \mathbb{K}\otimes L^{-}}_{\ni d} \times \underbrace{L^{|}\triangle \mathbb{K}\otimes L^{-}}_{\ni b} \times \underbrace{L^{-}\triangle \mathbb{K}\otimes L^{|}}_{\ni c}$$

$$\frac{a \,|\, b}{c \,|\, d}\;\frac{a' \,|\, b'}{c' \,|\, d'}\;\frac{a a' + b c' \;|\; b d' + a b'}{c a' + d c' \;|\; d d' + c b'}$$

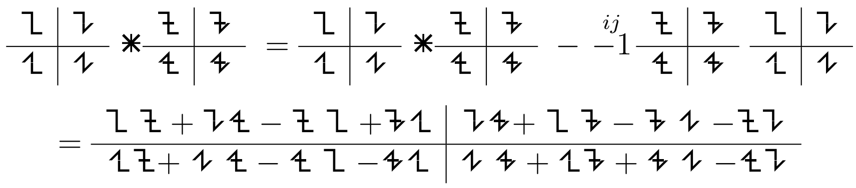
$$\frac{a \,|\, 0}{0 \,|\, d}\;\frac{a' \,|\, 0}{0 \,|\, d'} = \frac{a a' \;|\; 0}{0 \;|\; d d'} \quad \text{ev}$$

$$\frac{a \,|\, 0}{0 \,|\, d}\;\frac{0 \,|\, b}{c \,|\, 0} = \frac{0 \;|\; a b}{d c \;|\; 0} \quad \text{odd}$$

$$\frac{0 \,|\, b}{c \,|\, 0}\;\frac{a \,|\, 0}{0 \,|\, d} = \frac{0 \;|\; b d}{c a \;|\; 0} \quad \text{odd}$$

$$\frac{0 \,|\, b}{c \,|\, 0}\;\frac{0 \,|\, b'}{c' \,|\, 0} = \frac{b c' \;|\; 0}{0 \;|\; c b'} \quad \text{ev}$$

graded commutator



graded Lie alg