EK1 in 1

September-28-10 1:47 AM

For any $v \in F(V)$, $w \in F(W)$ define $J_{VW}(v \otimes w)$ to be the composition of morphisms:

$$(M_{+} \otimes M_{-} \xrightarrow{i_{+} \otimes i_{-}} (M_{+} \otimes M_{+}) \otimes (M_{-} \otimes M_{-}) \xrightarrow{\text{associativity morphism}} (M_{+} \otimes (M_{+} \otimes M_{-})) \otimes M_{-} \xrightarrow{(1 \otimes \beta_{23}) \otimes 1} (M_{+} \otimes (M_{-} \otimes M_{+})) \otimes M_{-} \xrightarrow{\text{associativity morphism}} (M_{+} \otimes M_{-}) \otimes (M_{+} \otimes M_{-}) \xrightarrow{v \otimes w} V \otimes W,$$

$$(2.1)$$

For any $v \in F(V)$, $w \in F(W)$ define $J_{VW}(v \otimes w)$ to be the composition of morphisms:

$$M_{-} \xrightarrow{i_{-}} M_{-} \otimes M_{-} \xrightarrow{v \otimes w} M_{+}^{*} \otimes V \otimes M_{+}^{*} \otimes W \xrightarrow{1 \otimes \gamma_{23} \otimes 1}$$

$$M_{+}^{*} \otimes M_{+}^{*} \otimes V \otimes W \xrightarrow{i_{+}^{*} \otimes 1 \otimes 1} M_{+}^{*} \otimes V \otimes W,$$

$$(8.1)$$

