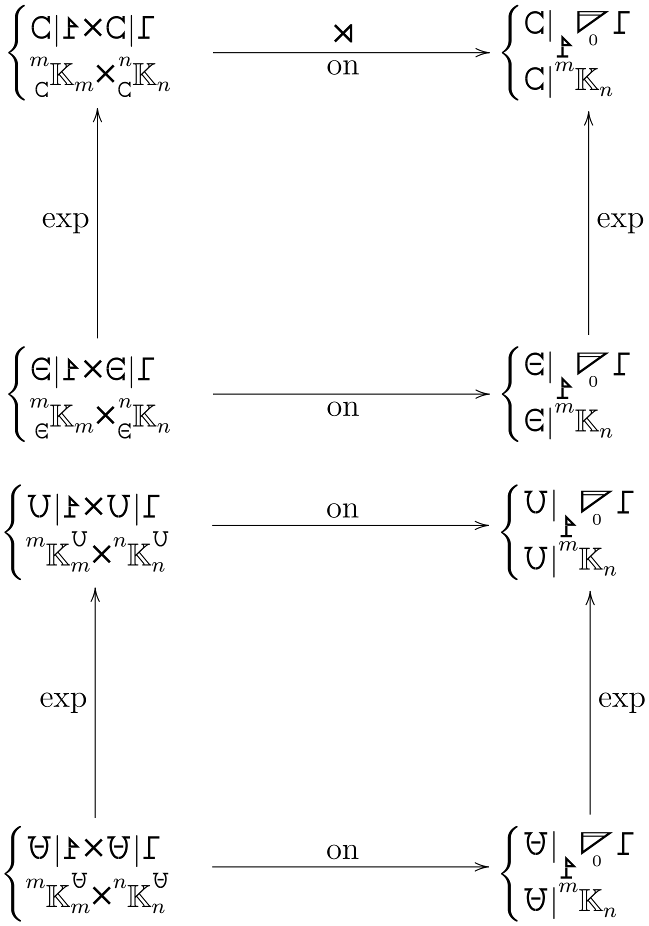

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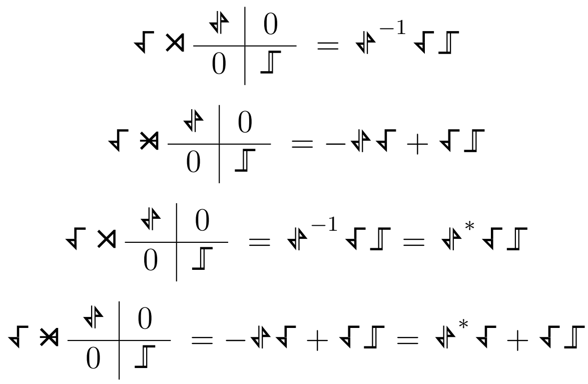

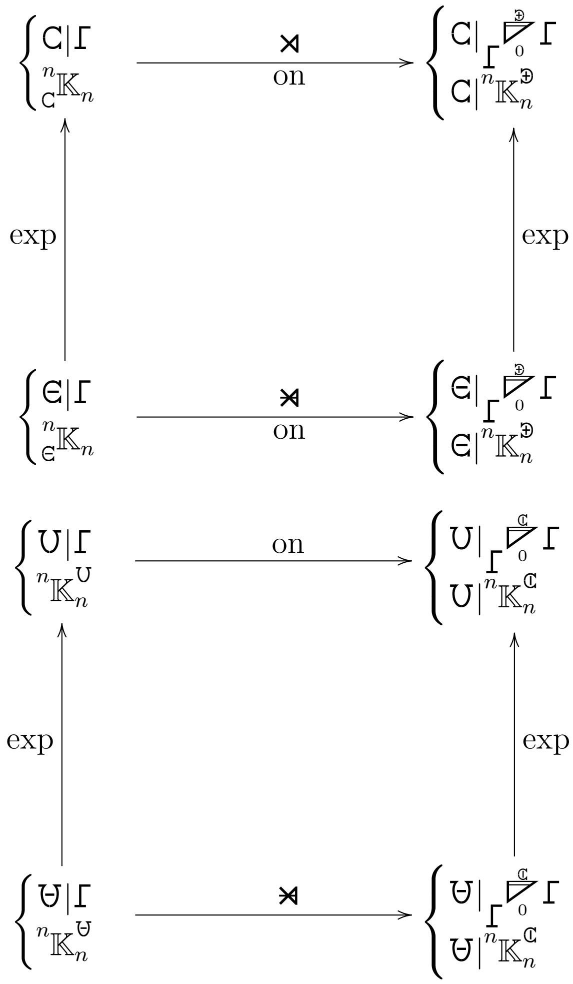

$$\Gamma \rtimes \begin{array}{c|c} \sharp^{-1} & 0 \\ \hline 0 & \Gamma \end{array} = \sharp\, \Gamma\, \Gamma = \Gamma \rtimes \Gamma$$

$$\Gamma \rtimes \begin{array}{c|c} -\sharp & 0 \\ \hline 0 & \Gamma \end{array} = \sharp\, \Gamma + \Gamma\, \Gamma = \Gamma \rtimes \Gamma$$

$$\underbrace{\rtimes \Gamma} \times \underbrace{\rtimes \Gamma} = - \underline{\Gamma\, \sharp}$$