$$\begin{array}{ccc}
\mathcal{L}_{+}^{\uparrow} & \longrightarrow & \mathcal{L}_{-}^{\uparrow} \\
 & & & & \\
T & & & T \\
 & & & \\
\mathcal{L}_{-}^{\downarrow} & \longrightarrow & \mathcal{L}_{+}^{\downarrow}
\end{array}$$