

$${}^m\mathbb{K}_m^\pm$$

$${}^m\mathbb{K}_m \sqsupseteq {}^m\mathbb{K}_{2m}^\pm \xrightarrow{\cong} {}^m\mathbb{K}_m^\pm$$

$${}^m\mathbb{K}_m (\sqrt{\cdot} : \sqrt{\cdot}) \mapsto \mathbb{K}_m (\sqrt{\cdot} : \sqrt{\cdot})$$

$$\left[\begin{array}{c|c} \sqrt{\cdot} & \sqrt{\cdot} \\ \hline * & 0 \end{array} \right] \begin{array}{c} \pm * \\ 0 \end{array} \left[\begin{array}{c} \sqrt{\cdot}^* \\ \sqrt{\cdot} \\ \hline \sqrt{\cdot}^* \\ \sqrt{\cdot} \end{array} \right] = \left[(\sqrt{\cdot}) * \quad \pm (\sqrt{\cdot}) * \right] \left[\begin{array}{c} \sqrt{\cdot}^* \\ \sqrt{\cdot} \\ \hline \sqrt{\cdot}^* \\ \sqrt{\cdot} \end{array} \right]$$