

$${}_{+1}\mathbb{K}_{1+n+1}^{\cup} = \begin{cases} \alpha:\Gamma:\beta \in {}_{\mathbb{C}}{}_{+1}\mathbb{K}_{1+n+1}^{+} \\ \alpha\alpha^{*} + \Gamma\Gamma^{*} + \beta\beta^{*} = 1 \end{cases} \quad \text{cpt}$$