

$$\mathbb{S}^3 = \mathbb{C}_2^U$$

left-inv 1-forms

$${}^y\sigma_1 : {}^y\sigma_2 : {}^y\sigma_3$$

$$r > |\alpha:w|$$

$$\begin{aligned} {}^{ry}G = & \frac{\widehat{dr}^2}{1 - \left(\frac{|\alpha:w|}{r}\right)^4} + r^2 \left({}^y\sigma_1^2 + {}^y\sigma_2^2 + {}^y\sigma_3^2 - (w_1 {}^y\sigma_1 + w_2 {}^y\sigma_2 + w_3 {}^y\sigma_3) \right) \\ & + r^2 (w_1 {}^y\sigma_1 + w_2 {}^y\sigma_2 + w_3 {}^y\sigma_3) \left(1 - \left(\frac{|\alpha:w|}{r}\right)^4 \right) \end{aligned}$$