

$$\varphi\colon (\mathbb{S}^3\times\mathbb{R}_u, d(e^*\alpha_{\mathbb{S}^3}))\rightarrow (T^*\mathbb{R}^2\setminus\{\mathbf{0},\mathbf{0}\}, dx_1\wedge dy_1+dx_2\wedge dy_2); (z_1,z_2,u)\mapsto e^{u/2}(r_1\cos\theta_1,r_2\cos\theta_2,r_1\sin\theta_1,r_2\sin\theta_2)$$