

$$\varphi\colon ({}^3\times_u, d(e^u\alpha_3)) \rightarrow (T^{*2}\setminus\{(0,0)\}, dx_1\wedge dy_1+dx_2\wedge dy_2); (z_1,z_2,u) \mapsto e^{u/2}(r_1\cos\theta_1, r_2\cos\theta_2, r_1\sin\theta_1, r_2\sin\theta_2)$$