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Title: Examples of indefinite globally framed f -structures on compact Lie groups

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We extend to the semi-Riemannian context the well-known results obtained by Blair, Ludden and Yano on toroidal principal bundles endowed with a metric globally framed f -structure. In this way we obtain examples of compact indefinite \mathcal{S} -manifolds. Then, we define an indefinite \mathcal{S} -structure on the Lie group $U(2)$ with a Lorentz left-invariant metric and, applying our results, we construct commutative diagrams involving semi-Riemannian submersions and Hopf fibrations. We also prove that $U(2)$ with such a structure is foliated by Reinhart lightlike hypersurfaces. Finally, we consider a normal indefinite globally framed f -structure on the Lie group $U(4)$ proving that it projects on $U(4)/U(3)$ in a Sasakian structure isomorphic to the standard Sasakian structure of \mathbb{S}^7 .

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