

Fully homogeneous para-quaternionic Kähler manifolds

Helge Joergensen

Department of Mathematics and Computer Science

Campusvej 55

University of Southern Denmark

Odense M. Fyn 5230, Denmark

Abstract

I will present a classification theorem for a class of homogeneous para-quaternionic Kähler manifolds. These are $4n$ -dimensional pseudo-Riemannian Einstein manifolds of split signature $(2n, 2n)$. The classification is obtained using twistor theory, a hypersymplectic Swann bundle and the theory of nilpotent orbits.