عنوان مقاله:

Canonical Foliation of an Indefinite Locally Conformal Kähler Manifolds

محل انتشار:

هشتمین کنفرانس بین المللی پژوهش در علوم و مهندسی و پنجمین کنگره بین المللی عمران، معماری و شهرسازی آسیا (سال: 1402)

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خلاصه مقاله:

We investigate the semi-Riemannian geometry of the foliation F of an indefinite locally conformal Kähler (l. c. K.) manifold M, described by the Pfaffian equation $\omega = \cdot$, under the condition $\nabla \omega = \cdot$ and $c = k \omega k \mathcal{F} = \cdot$ (where ω represents the Lee form of M). If M is conformally flat, then each leaf of F is proven to be a completely geodesic semi-Riemannian hypersurface in M, and a semi-Riemannian space form of sectional curvature c/τ , carrying an indefinite c-Sasakian structure. As a consequence of this result, along with a semi-Riemannian version of the de Rham decomposition theorem, any geodesically complete, conformally flat, indefinite Vaisman manifold of index τ s, where τ < s < n, is locally biholomorphically homothetic to an indefinite .complex Hopf manifold CH n s (λ), where τ < λ < τ , equipped with the indefinite Boothby metric g s, n

كلمات كليدي:

Canonical foliation, Lee form, Indefinite locally conformal Kähler manifold, Indefinite Hopf manifold

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