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ON THE GEOMETRY OF SLANT SUBMANIFOLDS IN (α, p)-GOLDEN RIEMANNIAN MANIFOLDS

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ABSTRACT

The notion of an almost (α, p)-golden structure, recently introduced by Hretcanu and Crasmareanu [1], extends the classical golden and metallic structures through a unified polynomial framework on Riemannian manifolds. This construction generalizes earlier works on golden structures [2] and metallic structures [3], and provides a natural setting for studying geometric properties of submanifolds. In their foundational paper, the authors examined invariant submanifolds in this context [1, 6]. Building upon this framework, we consider the geometry of slant submanifolds, which are a natural extension of invariant and anti-invariant cases in submanifold theory [5]. Our results aim to contribute to the development of submanifold geometry within generalized polynomial-type metric structures.

Keywords α-structure · (α, p)-structure · (α, p)-golden manifold · slant submanifold

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