PROJECTABLE COMPLEX NONLINEAR CONNECTION AND COMPLEX LAGRANGE FOLIATIONS

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Abstract: *In this paper we define the projectable complex nonlinear connection notion and we study some classes of foliations on a complex Lagrangian manifold, which are related to the Lagrange metric to extend to a bundle-like metric for the lifted foliation on the holomorphic tangent bundle. The notions are introduced in similar manner with the real case[7], and the complex nonlinear connection considered is of the Cartan type..*

Key words: *projectable nonlinear connections, complex Lagrange spaces, lifted foliation.*

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