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δ - J - g Decompositions on Almost Hermitian Manifolds

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Abstract - We introduce on an almost Hermitian manifold (M, g, J) a $\mathcal{F}(M)$-module of conformal holomorphic invariant operators. $\delta - J - g$ decompositions produced by operators which are projections lead to a generalization of Mori-Sitaramayya splitting of the vector space of K-curvature tensors. We introduce and study the generalized complex conformal connections and the generalized Bochner curvature tensor fields on Kähler manifolds.

Key words and phrases : : δ-J-g-operators, conformal holomorphic projections, δ-J-g-decompositions, Kähler manifolds.

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