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Title: Cohomological and metric properties of non-Kähler manifolds

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Abstract: We study cohomological properties of compact non-Kähler manifolds, and we investigate the existence of special metrics. For example, we can consider the existence of Hermitian metrics in a conformal class with the property of having constant scalar curvature with respect to the Chern connection. (Note that the Chern Ricci form defines a class in Bott-Chern cohomology.) The problem can be solved at least in the case of non-negative Kodaira dimension.