

**ABOUT HERMITIAN METRICS WHOSE SCALAR CURVATURE OF THE CHERN  
CONNECTION IS CONSTANT**

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ABSTRACT. Given a smooth compact complex manifold, we consider the problem on existence, in a fixed conformal class, of Hermitian metrics whose scalar curvature induced by the Chern connection is constant. In particular, we describe the interesting role in the picture played by the Gauduchon metrics (joint work with Daniele Angella and Cristiano Spotti, arXiv:1501.02638).