

GLOBAL HYPOELLIPTICITY ON CERTAIN COMPACT, LEVI-FLAT CR MANIFOLDS

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We shall present some results on the global hypoellipticity for the tangential Cauchy-Riemann operator associated to a CR structure defined on the product of a compact complex manifold by the unity circle. The CR structure is assumed to be Levi-flat. The study is done by comparing this CR structure with a real structure on the same manifold, of corank one, and for which a result on global hypoellipticity is available. The results are due to Vinicius Novelli da Silva.