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LIOUVILLE-TYPE RESULT FOR THE CR YAMABE EQUATION IN THE HEISENBERG GROUP

We obtain a Liouville-type result for solutions to the CR Yamabe equation in the Heisenberg group H^n under a pointwise decay assumption at infinity, which extends a result obtained by Jerison and Lee for solutions in $L^{2+2/n}(H^n)$. Our proof relies on integral estimates combined with an extended version of a divergence formula by Jerison and Lee.