GLOBAL SOLVABILITY OF REAL-ANALYTIC COMPLEX VECTOR FIELDS IN TWO VARIABLES

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ABSTRACT. We will discuss the global solvability of a complex vector field with real analytic coefficients in two real variables. The vector field is assumed to satisfy the Nirenberg-Treves condition ($\mathcal{P}$) for local solvability. Normal forms as well as a generalization of the Riemann-Hilbert problem will be addressed.