

MODELS, EQUIVALENCE AND SYMMETRIES OF UNIFORMLY LEVI DEGENERATE HYPERSURFACES II

Jan Gregorovic

(University of Ostrava)

Abstract: The general theory of uniformly Levi degenerate real hypersurfaces, that we developed in collaboration with Martin Kolar, Ilya Kossovskiy and David Sykes, can be brought further for Levi 2-nondegenerate CR hypersurfaces in \mathbb{C}^4 . In particular, we obtain a complete normal form for the models of such hypersurfaces and classify the homogeneous models. We investigate the basic invariants of these models such as a bigraded symbol and modified symbol and discuss the maximally symmetric realizations of these CR invariants.