

REFINED CR PROLONGATIONS AND QUASI-FINITE TYPE

Bernhard Lamel

(University of Vienna)

Abstract: Following up on the talk by Nordine Mir, this talk explains the techniques in the proof of the main theorems. In particular, we discuss the notion of quasi-finite type in detail and explain how we can either construct (in a universal way) a certain non-degenerate system of equations fulfilled by any map taking one given real submanifold into a real-algebraic set, or find a certain family of approximate deformations of those maps, which in some adequate circumstances forces that we have a non-degenerate system of equations for every map satisfying a certain condition. This is where the notions of non-collapsing maps and quasi-finite type points come into play to provide a proof of the determination results from the first talk.