

A class of vector fields with singular points: solvability and boundary value problems

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In this talk we will present results about solvability of planar complex vector fields with homogeneous degeneracies. Hölder continuous solutions are obtained via a Cauchy type integral operator associated to the vector field. An associated boundary value problem of Riemann-Hilbert type is also considered.

This is joint work with Camilo Campana (UFSCar) and Hamid Meziani (FIU).