

SEMIGLOBAL SOLVABILITY IN HYPERFUNCTIONS OF ANALYTIC PDE OF PRINCIPAL TYPE

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Abstract: The lecture provides an overview of Chapter 24 in the book *Analytic Partial Differential Equations* by François Trèves. The main point of the lecture is to explain to nonspecialists the meaning of a few theorems due to various mathematicians which, in combination, lead to the final statement alluded to in the title. Actually, the contents of Ch.24 are not even familiar to specialists, as was revealed to me by the comments of the referees to my book. The proofs are rather technical (with variations of the FBI transform as the main tool) and will be entirely omitted here. They can be found in the book in complete detail.