

A MI-CHEMIN ENTRE ANALYSE COMPLEXE ET SUPERANALYSE

PIERRE BONNEAU ET ANNE CUMENGE

Abstract: In the framework of superanalysis we get a functions theory close to complex analysis, under a suitable condition (A) on the real superalgebras in consideration (this condition is a generalization of the classical relation $1 + i^2 = 0$ in $\mathbb{C}$). Under the condition (A) , we get an integral representation formula for the superdifferentiable functions. We deduce properties of the superdifferentiable functions: analyticity, a result of separated superdifferentiability, a Liouville theorem and a continuation theorem of Hartogs-Bochner type.

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Key words: superspace, superdifferentiable function, integral representation, superanalysis.