



UNIVERSIDADE FEDERAL DE ALAGOAS
PROGRAMA DE PÓS-GRADUAÇÃO EM
MATEMÁTICA



Global L^q -ultradifferentiable functions

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Resumo: The class of global Gevrey functions was introduced recently by Z. Adwan, G. Hoepfner and A. Raich, the elements in these spaces are defined in terms of its derivatives with estimates that depend on sequences. It is known that in the local case ultradifferentiable functions defined by sequences and weight functions are not always the same. The purpose of this presentation is to introduce the class of global ultradifferentiable functions according with weight functions, and also to present some results such as a version of Paley-Wiener theorem.

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