Elliptic convolution operators on ultradistributions

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Abstract:

For those nonquasianalytic classes in which an extension of the classical Borel's theorem holds we show that every elliptic convolution operator is the composition of a translation and an invertible ultradifferential operator. This answers a question asked by Chou in "La transformation de Fourier complexe et l'equation de convolution", Lecture Notes in Math. 325, Springer Verlag (1973).