

A new algebra of pseudodifferential operators

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In this talk, we will construct a class of pseudodifferential operators, that can be used to describe some naturally arising operators in several complex variables. The main geometric data needed in this construction is a distribution of hyperplanes, on say the boundary of a domain in \mathbb{C}^N . The pseudodifferential operators we construct can be used to understand what happens when one composes an operator with Euclidean homogeneity, with an operator with a Heisenberg homogeneity. This is joint work with E. Stein.