

Israel P. Rivera Ríos (University of the Basque Country, Bilbao, Spain):
Sparse domination for singular operators.

Abstract: Given a Calderón-Zygmund operator T (the Hilbert transform is a particular case of that class of operators), it is possible to control pointwise T by a finite sum of operators, called sparse operators (see [1, 5, 3, 2, 4]), that are defined in terms of sums of averages over dyadic cubes in sparse families. In this talk we will present that result and also some consequences that can be derived from it. If time permits we will introduce as well the analogous result for commutators that was recently obtained in [6].

References

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