

BI-CO MATHEMATICS COLLOQUIUM

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“ L^p Boundedness of Oscillatory Singular Integral Operators”

Monday, April 20, 2009

Talk at 4:15 – KINSC H109
Tea at 4:00 – KINSC Math Lounge, H208

Abstract: Oscillatory singular integral operators are singular integral operators which carry oscillatory factors in their kernels. They have arisen in many problems in harmonic analysis and related areas and have been studied extensively, but there are still important unanswered questions. This talk will focus on the L^p estimate of a class of oscillatory singular integral operators of non-convolution type with kernel in the Hardy space over the unit sphere. The new L^p boundedness result generalizes previously known results and introduces a new approach in solving a problem with kernels in the Hardy space over the unit sphere.

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