

Thursday, May 16th, 12:00-13:00

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ON BILINEAR FOURIER MULTIPLIERS

We shall begin the seminar with a brief introduction to the theory of bilinear Fourier multipliers in euclidean spaces. Our aim is to discuss bilinear analogues of some problems from the classical Fourier multiplier theory concerning the Fourier multipliers of the form of the $e^{i\phi(\xi)}$, where ϕ is a real-valued function. In particular, we shall prove a negative result about the bilinear multiplier operators associated with unimodular functions $e^{i\phi(\xi-\eta)}$ for non-linear real functions ϕ . This is based on a joint work with K. Jotsaroop.