HARMONIC ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (MS - ID 28)

Pointwise ergodic theorems for bilinear polynomial averages

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We shall discuss the proof of pointwise almost everywhere convergence for the non-conventional (in the sense of Furstenberg and Weiss) bilinear polynomial ergodic averages. This is joint work with Ben Krause and Terry Tao: arXiv:2008.00857. We will also talk about recent progress in this area.