

ANALYSIS & APPLICATIONS

seminar

BILINEAR PROOF OF THE DECOUPLING THEOREM FOR THE MOMENT CURVE

SPEAKER: Pavel Zorin-Kranich (University of Bonn)

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ABSTRACT: The decoupling theorem for the moment curve, due to Bourgain, Demeter, and Guth, implies the Vinogradov mean value theorem with the sharp exponent. I will present a bilinear proof of this result that avoids Brascamp-Lieb inequalities. Joint work with S. Guo, Z. Li, and P.L. Yung.