



Seminar/Talk

A minimalist version of the circle method and Diophantine problems over thin sets

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Host: Tim Browning

We study the minimal conditions under which we can establish asymptotic formulae for Waring's problem and other additive problems that may be tackled by the circle method. We confirm in quantitative terms the well-known heuristic that a mean value estimate and an estimate of Weyl type, together with suitable distribution properties of the underlying set over a set of admissible residue classes, are sufficient to implement the circle method. This allows us to give a rather general proof of Waring's problem which is applicable to a range of sufficiently well-behaved thin sets.

Wednesday, June 10, 2026 01:00pm - 02:30pm

Central Bldg / O1 / Mondi 2a (I01.O1.008)



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