

On the Generalised Hermite Constant

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Venue: SPMS-Executive Classroom 1, MAS-03-06
School of Physical and Mathematical Sciences

In traditional geometry of numbers, the Hermite constant accounts for the highest density of sphere packings associated with lattices in a given dimension. We shall show how a characterisation of this constant extends to a broader context that includes number theory and representation theory ingredients. We shall also present some explicit computations or methods to get the value of these constants.

Speaker Biography

Bertrand Meyer studied pure mathematics and computer science at Ecole Normale Supérieure de Cachan (France). He received his Ph.D. in number theory in November 2008 from Université de Bordeaux (France). His research interests vary from number theory to its application to coding theory.

Host: Prof. Frederique Oggier, Division of Mathematical Sciences, School of Physical and Mathematical Sciences

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