

SCHOLAR  
UNE CÉLÉBRATION SCIENTIFIQUE SOULIGNANT LES LIGNES OUVERTES DE LA RECHERCHE MATHÉMATIQUE EN  
L'HONNEUR DE L'HÉRITAGE MATHÉMATIQUE DU P<sup>R</sup> M. RAM MURTY À L'OCCASION DE SON 60<sup>E</sup> ANNIVERSAIRE  
15 AU 17 OCTOBRE 2013

SCHOLAR  
A SCIENTIFIC CELEBRATION HIGHLIGHTING OPEN LINES OF ARITHMETIC RESEARCH IN  
HONOUR OF PROFESSOR M. RAM MURTY'S MATHEMATICAL LEGACY ON HIS 60TH BIRTHDAY  
OCTOBER 15–17, 2013

# Gaussian distribution and Fourier coefficients of cusp forms in arithmetic progressions

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We explain how the Gaussian law appears when summing Fourier coefficients of cusp forms in arithmetic progressions. The same phenomenon also appears for the divisor function, after suitable normalizations.

*This is a joint work with S. Ganguly, E. Kowalski, and Ph. Michel.*

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