

SCHOLAR
UNE CÉLÉBRATION SCIENTIFIQUE SOULIGNANT LES LIGNES OUVERTES DE LA RECHERCHE MATHÉMATIQUE EN
L'HONNEUR DE L'HÉRITAGE MATHÉMATIQUE DU P^R M. RAM MURTY À L'OCCASION DE SON 60^E 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
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A converse theorem for double Dirichlet series

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Converse theorems state that if a Dirichlet series and all its twists satisfy functional equations of the right type then the Dirichlet series is modular, i.e., it is the Mellin transform of an automorphic form. We shall present a new converse theorem for Dirichlet series in two complex variables. As an application we will show that the Shintani zeta function associated to a certain prehomogeneous vector space is in fact a Weyl group multiple Dirichlet series of type A_2 .

This is joint work with Nikos Diamantis.

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