

CLASSIFICATION OF L -FUNCTIONS OF DEGREE 2 AND CONDUCTOR 1

ALBERTO PERELLI (University of Genova)

ABSTRACT: We give a full description of the functions F of degree 2 and conductor 1 in the general framework of the extended Selberg class. This is performed by means of a new numerical invariant χ_F , which is easily computed from the data of the functional equation. We show that the value of χ_F gives a precise description of F , thus providing, in particular, a sharp form of the classical converse theorems of Hecke and Maass. (Joint work with J. Kaczorowski)

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