

Séminaire de théorie des nombres

Le 14 juin 2010 à 14h

Shimura curves, Coleman families and p -adic L -functions

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Résumé : In this talk, we will describe a method for assigning a p -adic L -function to a pair (F, K) , where F is a Coleman family of modular forms and K is a real quadratic field. This p -adic L -function interpolates central values of classical L -functions associated to specializations of F base changed to K . In certain situations, These p -adic L -functions display exceptional zero phenomena and encode information about algebraic points on modular abelian varieties.