
ISABELLA NEGRINI, University of Toronto

Modular generating series for rigid cocycles

Rigid cocycles were defined in 2017 by Darmon and Vonk and give a promising framework to extend the theory of complex multiplication to real quadratic fields, towards a theory of “real multiplication”. They share striking parallels with modular forms, and their generalizations are the main ingredient in the emerging p-adic Kudla program. In this talk I will show how rigid cocycles can be used to build modular generating series.