In this short talk, I will discuss some recent progress on the modularity of generating series of RM invariants that arise as special values of rigid cocycles. This provides results in the spirit of the Kudla programme, whose intrinsically p-adic nature furnishes a direct connection with class field theory. This work is joint with Henri Darmon and Alice Pozzi.

JAN VONK, University of Leiden Modular generating series of RM invariants