



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

MINI-WORKSHOP
ON
IWASAWA THEORY OF RANKIN-SELBERG
CONVOLUTIONS AND BEILINSON-FLACH
ELEMENTS

The analytic theory of the Rankin-Selberg product of two elliptic modular forms has been developed extensively by Jacquet, Gelbart-Jacquet and Jacquet-Langlands in the 70's, in the context of Langlands functoriality principle. After the recent breakthrough of Antonio Lei, David Loeffler and Sarah Zerbes [Ann. of Math. (2) 180 (2014)], the topic evolved into a new phase where the arithmetic properties of the associated motives became accessible, counter to their already-well-understood analytic features. The goal of this mini-workshop is two-fold: On one hand, we will go over recent applications (due to Antonio Lei and K.B.) of the work of Lei-Loeffler-Zerbes to the anticyclotomic Iwasawa theory of modular forms. On the other, we will attempt to pin down some delicate technical matters that arise in the Iwasawa theoretic investigations (joint with Tadashi Ochiai) in the study of nearly-ordinary families of Rankin-Selberg products.

The workshop will meet the morning of March 14, 16, and 18 from 10am till noon for talks. The afternoons will be devoted to discussion around these problems. We acknowledge a partial support by TBITAK grant 113F059 to hold this workshop.

Date : March 14, 16, 18, 2016

Place : IMBM Seminar Room, Boğaziçi University South Campus