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# MOD 5 ICOSAHEDRAL REPRESENTATIONS AND APPLICATIONS TO A CONJECTURE OF ARTIN

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## Abstract

In this talk, I will explain modularity of mod 5 icosahedral representations of the absolute Galois group  $G_F$  of a totally real field  $F$ , and prove many new cases of the strong Artin conjecture for totally odd two-dimensional insoluble representations of  $G_F$ .

**Date:** Wednesday, May 25, 2011

**Time:** 15:30

**Place:** IMBM Seminar Room, Boğaziçi University

This visit is partially sponsored by the grants TÜBİTAK-107T897 and Marie Curie-FP7-IRG 230668.