



istanbul matematiksel bilimler merkezi
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SIGNATURE DEFECT AND ETA INVARIANTS

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METU

Abstract

The signature of an unramified cover of a smooth manifold with boundary is in general not a multiplicative quantity, as opposed to signatures of closed manifolds. The deficiency can be explained by the eta invariant, which appears in the Atiyah-Patodi-Singer index theorem for manifolds with boundary. In this talk, after recalling these notions, I will discuss Ashikaga's results on how such deficiencies can be computed for degenerations of Riemann surfaces and explain the relation to our joint work with A. Bassa on 4-nets.

Date : Friday, February 18, 2022

Time: 13:30

Place: Boğaziçi University, South Campus