CCSU DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, April 5 3:00 – 4:00 PM Maria Sanford, Room 101

HARMONIC FORMS ON PINCHED SURFACES B.IOERN MUETZEL

ECKERD COLLEGE

(Joint work with Peter Buser, Eran Makover, and Robert Silhol)

ONLINE PRESENTATION

Abstract: We study the energy distribution of harmonic 1-forms on a compact hyperbolic Riemann surface where a short, closed geodesic is pinched. More precisely, we are interested in forms dual to a suitable canonical homology basis. If the geodesic separates the surface into two parts, then each dual form retracts to one of these two parts. If the geodesic is non-separating, then the energy of one dual form goes to infinity and the energy of another goes to zero.

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