

TOPOLOGY SEMINAR

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Mapping class groups, homology
and finite covers of surfaces

Tuesday, May 8th, 4:00pm, in 383-N

Abstract: Let S be a orientable surface of negative Euler characteristic. We will discuss the action of pseudo-Anosov mapping classes of S on the homology of various finite covers of S to which they lift. We will be particularly interested in finding a lift of each pseudo-Anosov mapping class for which the homological spectral radius is greater than one. For a given mapping class, we will relate the study of this problem to the topology of the mapping torus.