

[Galatius, Søren](#)

**Mod  $p$  homology of the stable mapping class group.** (English) Zbl 1074.57013  
[Topology](#) 43, No. 5, 1105-1132 (2004).

Let  $F_{g,n}$  be an oriented surface of genus  $g$  with  $n$  boundary components and let  $\Gamma_{g,n}$  denote the mapping class group of  $F_{g,n}$ , the group of isotopy classes of orientation-preserving diffeomorphisms of  $F_{g,n}$  fixing each point in a neighborhood of the boundary of  $F_{g,n}$ . In this paper the author calculates the homology groups  $H_*(F_{g,n}; \mathbb{F}_p)$  in the stable range. The calculation is based on the proof of Mumford Conjecture given by I. Madsen and M. Weiss.

Reviewer: [Mustafa Korkmaz \(Ankara\)](#)

**MSC:**

[57M99](#) General low-dimensional topology  
[57M50](#) General geometric structures on low-dimensional manifolds

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