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On the Dimension of Cohomology of Bianchi Groups

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Using Lefschetz numbers of certain involutions, we provide lower bounds for the cuspidal cohomology of principal congruence subgroups of Bianchi groups. The asymptotic lower bounds that follow from our results complement recent results of Calegari-Emerton, Marshall and Finis-Grunewald-Tirao. Moreover, we discuss the relationship between these involutions and the base change classes in the cohomology.

Comments:	Updated Theorem 5.1. according to the newer version of Marshall's paper
Subjects:	**Number Theory (math.NT)**; General Topology (math.GN); Group Theory (math.GR)
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