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**Alexandra R Pettet\*** (apettet@math.stanford.edu), Stanford University, Mathematics, Bldg 380, 450 Serra Mall, Stanford, CA 94305-2125. *Cohomology of some subgroups of the automorphism group of a free group.*

$IA_n$  is the subgroup of  $\text{Aut}(F_n)$  which acts trivially on the homology of the free group and is thus an analogue for the Torelli subgroup of the mapping class group of a surface. We implement different methods for studying cohomology of  $IA_n$  and one of its subgroups. (Received September 25, 2006)