Javier Aramayona and Juan Souto* (jsouto@umich.edu), Mathematics Department, University of Michigan, Ann Arbor, MI 48109. Homomorphisms between mapping class groups.

By analogy with Margulis’s superrigidity, it is expected that every homomorphism $\text{Map}(X) \to \text{Map}(Y)$ between mapping class groups of surfaces $X$ and $Y$ of sufficiently large genus $g(X)$ and $g(Y)$ belongs to some to-be-determined list of obvious homomorphisms. We prove that this is indeed the case if $g(X) \geq 6$ and $g(Y) \leq 2g(X) - 1$. (Received August 22, 2010)