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**Ana-Maria Castravet\*** ([noni@alum.mit.edu](mailto:noni@alum.mit.edu)), Department of Mathematics, OSU, 100 Math Tower, 231 West 18th Avenue, Columbus, OH 43210, and **Jenia Tevelev** ([tevelev@math.umass.edu](mailto:tevelev@math.umass.edu)), Lederle Graduate Research Tower, University of Massachusetts, Amherst, MA 01003. *Rigid curves on  $\overline{M}_{0,n}$  and arithmetic breaks.*

A result of Keel-McKernan states that a hypothetical counterexample to the F-conjecture must come from rigid curves on  $\overline{M}_{0,n}$  that intersect the interior. In this talk I will discuss several ways of constructing such rigid curves. In all our examples, an arithmetic argument shows that the classes of the rigid curves that we construct can be decomposed as sums of F-curves. (Received August 27, 2011)