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Matt T. Clay, Christopher J. Leininger and Johanna Mangahas*

(mangahas@math.brown.edu). *The geometry of right-angled Artin subgroups of mapping class groups.*

I'll describe joint work with Matt Clay and Chris Leininger. We give sufficient conditions for a finite set of mapping classes to generate a right-angled Artin group quasi-isometrically embedded in the mapping class group. Moreover, under these conditions, the orbit map to Teichmueller space is a quasi-isometric embedding for both of the standard metrics. As a consequence, we produce infinitely many genus h surfaces (h at least 2) in the moduli space of genus g surfaces (g at least 3) for which the universal covers are quasi-isometrically embedded in the Teichmueller space. (Received September 19, 2011)