

1109-57-125

Hyunshik Shin* (shin@math.uic.edu) and **Balazs Strenner** (strenner@math.wisc.edu).

Pseudo-Anosov mapping classes not arising from Penner's construction.

We show that Galois conjugates of stretch factors of pseudo-Anosov mapping classes arising from Penner's construction lie off the unit circle. As a consequence, we show that for all but a few exceptional surfaces, there are examples of pseudo-Anosov mapping classes so that no power of them arises from Penner's construction. This resolves a conjecture of Penner. (Received January 27, 2015)