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**Rupert William Venzke\*** (gnarly100@hotmail.com). *Hyperbolic Geometry and Dynamics of the Horseshoe map*. Preliminary report.

We study a partial order on pseudo-Anosov braids called the "forcing order" that gives a relative measure of complexity for surface automorphisms. One can use this order to study the relationship between entropy and volumes of associated hyperbolic mapping tori. We utilize this order further to study orbits of the Horseshoe map. (Received January 30, 2008)