

The Oliver Club

www.math.cornell.edu/~oliver/

On the Monodromy of the Hénon Map

We discuss the topological complexity of the hyperbolic horseshoe locus of the complex Hénon map in terms of the monodromy representation. We prove the existence of non-trivial loops generating infinitely many mutually different monodromies. This implies that the topological structure of the locus is much complicated than its one-dimensional analog, the Mandelbrot set. In addition, it is shown that there is a correspondence between the monodromy of the complex Hénon map and the dynamics of the real Hénon map.



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Refreshments will be served at 3:55 PM in the Mathematics Department lounge (532 Malott Hall).

Thursday, August 30, 2007
at 4:25 PM in 406 Malott Hall