International Conference on Dynamical Systems in honour of Michał Misiurewicz on his 60th birthday

Bedlewo, Poland, June 30 – July 5, 2008

Asymptotics of dimension for interval maps with holes

Tomas Persson (Lund University)

We consider expanding maps with a parabolic fixed point, defined on an interval with a hole. Under some assumptions on the map, it is shown that the derivative of the dimension of the repeller with respect to the size of the hole is bounded and that the dimension is bounded away from zero.