**Siegel Disks for Complex Henon Maps**
Remus Radu, Institute for Mathematics of the Romanian Academy

We look at the family of complex Henon maps which have a semi-indifferent fixed point with eigenvalues $w_{1}$ and $w_{2}$, where $|w_{1}|<1$ and $w_{2} = \exp(2 \pi i t)$ and $t$ is a Brjuno number. These maps have a Siegel disk and we are interested in the regularity and geometric properties of its boundary. Using hyperbolicity of golden mean renormalization of dissipative Henon-like maps, we show that the boundary of the Siegel disk is a topological circle in certain cases. This is based on joint work with D. Gaidashev and M. Yampolsky.