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The Chern–Ricci Flow

The Chern–Ricci flow is a parabolic flow of Hermitian metrics on complex manifolds, first introduced by M. Gill. It coincides with the Kähler–Ricci flow when the initial metric is Kähler. I will describe convergence results for the Chern–Ricci flow in complex dimension two. I will show that it is a natural evolution equation whose behavior reflects the underlying topological and complex structures of the manifold. This is based on joint work with Tosatti and Tosatti–Yang.