

ATELIER SUR LES EDP GÉOMÉTRIQUES  
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## The evolution of a Hermitian metric by its Chern–Ricci form

Ben Weinkove \*

weinkove@math.ucsd.edu

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I will discuss the evolution of a Hermitian metric on a compact complex manifold by its Chern–Ricci form. This is an evolution equation first studied by M. Gill, and coincides with the Kahler–Ricci flow if the initial metric is Kahler. I will describe the maximal existence time for the flow in terms of the initial data. I will discuss the behavior of the flow on complex surfaces when the initial metric is Gauduchon, on complex manifolds with negative first Chern class, and on some Hopf manifolds. This is a joint work with Valentino Tosatti.

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\*Department of Mathematics, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0112, USA.