

1062-58-104

Jeffrey Streets*, 27 E Delaware, Pennington, NJ 08534. *Geometric flows on complex manifolds.*

In joint work with Gang Tian, I have introduced a natural geometric evolution equation generalizing the Kahler Ricci flow to certain nonKahler metrics. I will discuss the regularity properties of this flow, as well as a conjectural picture of the optimal regularity results, and finally some new concrete topological applications of this conjectural picture. (Received July 31, 2010)