Abstract

Using convergence theories for Ricci shrinkers, we prove that non-compact Kähler Ricci shrinker surfaces possess two distinct canonical neighborhoods outside a compact set, leading to uniformly bounded sectional curvature. Combining this estimate with prior works by Bamler, Conlon-Cifarelli-Deruelle, and Sun, we achieve a comprehensive classification of all Kähler Ricci shrinker surfaces. This work was done in collaboration with Bing Wang.