

Alix Deruelle

On the Hamilton-Lott conjecture in dimension 3

Hamilton-Lott's conjecture states that a complete Ricci pinched metric in dimension 3 is flat if the underlying space is non-compact. We will explain how the Ricci flow helps to solve this conjecture provided the curvature is bounded. We will explain a crucial local stability estimate for two Ricci flows coming out of singular initial metrics that allows us to boil down to the rigidity of asymptotically conical Ricci-pinched self-similar solutions. This is joint work with Felix Schulze and Miles Simon.