Title

Some Ancient Solutions to General Curvature Flows

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Abstract: The key to understanding geometric flows is to understand what the singularities look like. And the key to understanding singularities is to understand its so-called ”ancient solutions”. These are the solutions that are defined for all past times. A couple of important examples include translating solutions (ones that evolve under translation) and the ”pancake” solutions. A lot of work has gone into understanding particular flows the Mean Curvature Flow, and some others like the Gauss Curvature Flow, Harmonic Mean Curvature Flow etc, and there are both a great deal of similarities and differences among these. We survey the situation in these well-known cases, and investigate translating and pancake solutions in abstract geometric flows. This provides insight on why the various flows behave differently from each other.

This is a Zoom talk. The host will send a link soon.