

Yamabe flow of asymptotically flat metrics

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In this talk, we will discuss the behavior of the Yamabe flow on an asymptotically flat (AF) manifold. We will first talk about the long-time existence of the Yamabe flow starting from an AF manifold, and then discuss the uniform estimates on manifolds with positive Yamabe constant. This would allow us to prove convergence along the Yamabe flow. If time permits, we will talk about the behavior of the rescaled flow on manifolds with negative Yamabe constant. This is joint work with Eric Chen.