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Eric Bahuaud*, Department of Mathematics, Seattle University, Seattle, WA. *On the evolution of APEs*. Preliminary report.

The renormalized volume is an important invariant of an even dimensional Poincaré-Einstein manifold. More generally it is possible to define the renormalized volume of an asymptotically Poincaré-Einstein (APE) metric that has a certain expansion at infinity. In this talk I will outline our initial results studying how this quantity evolves under a normalized Ricci flow, and state a monotonicity result for a certain class of APE metrics. This is joint work with Rafe Mazzeo and Eric Woolgar. (Received February 05, 2013)