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Brian Allen* (brian.allen@usma.edu). *IMCF and the Stability of the PMT and RPI.*

We will discuss the stability, under L^2 metric convergence, of the Positive Mass Theorem (PMT) and the Riemannian Penrose Inequality (RPI) in the case where a region of an asymptotically flat manifold M^3 can be foliated by a smooth solution of Inverse Mean Curvature Flow (IMCF) which is uniformly controlled. (Received August 03, 2017)