

**GENERIC SCARRING FOR MINIMAL HYPERSURFACES
 IN MANIFOLDS THICK AT INFINITY WITH A THIN
 FOLIATION AT INFINITY**

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Time: Wed, Dec. 27th, 9:00-11:00

Venue: Room 102, SCMS

Abstract: We show generic scarring phenomenon for minimal hypersurfaces in a class of complete non-compact manifolds. In particular, we prove that for any metric g in a C^∞ -generic subset of the family of complete metrics which are thick at infinity with a thin foliation at infinity on a fixed M^{n+1} of dimension $3 \leq (n + 1) \leq 7$, to any connected, closed, embedded, 2 -sided, stable minimal hypersurface $S \subset (M, g)$, there exists a sequence of closed, embedded, minimal hypersurfaces $\{\Sigma_k\}$ scarring along S , in the sense that the area of Σ_k diverges to infinity, and when properly renormalized, Σ_k converges to S as varifolds.