

Nearly G2-structures and G2-Laplacian co-flows

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Nearly G2-structures in dimension seven are, up to scaling, critical points of a geometric flow called (modified) Laplacian co-flow. Moreover, since nearly G2-structures define Einstein metrics, they can also be associated to critical points of the volume-normalised Ricci flow. In this talk, we will discuss a recent joint work with Jason Lotay, showing that many of these nearly G2 critical points are unstable for the modified co-flow, and giving a lower bound on the index.

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