

Blow-up profile for Parabolic equations Related to Geometry

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We will talk about the construction and the profile of finite-time blow-up solutions to the semilinear heat equation involved with geometric structures. While most known singularity formation mechanisms rely on Euclidean concentration profiles, we develop a framework adapted to the geometric setting. In particular, we localize the solution in local charts, and sum up information to gain control of the solution in all the manifold.