

Stability of regular shrinkers in the network flow

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Abstract

Abstract: The singularities of network flow are modeled by self-similarly shrinking solutions called regular shrinkers. Here, we study stability of regular shrinkers. All regular shrinkers with two or more enclosed regions can be perturbed away. Among the regular shrinkers with one enclosed region, 4-ray star, 5-ray star, fish, and rocket are unstable.