

# 國立中山大學應用數學系

## 學術演講

講者：張瑞恩 教授 (國立中正大學)  
講題：Stability of regular shrinkers in the network flow  
時間：2021/10/28 (Thursday) 16:10 ~ 17:00  
地點：理 SC4009-1 教室  
茶會：15:30

### Abstract

In this talk, I'll present the problem I'm working on and some partial results. In the network flow, singularities may form. They can be described as self-similar shrinking solutions called regular shrinkers. An important problem is that if we perturb the initial network, will the new network flow to the same singularity? All network with 2 or more enclosed regions can be perturbed away. Therefore, the problem reduces to the network with less than 2 enclosed regions. There are infinitely many of them and they are completely classified. Here, I use the entropy argument as in Colding and Minicozzi's work to show that the 4-ray star, the 5-ray star, the fish, and the rocket can be perturbed away.

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