國立中山大學應用數學系
學術演講

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講　題：On gradient Ricci soliton warped products

時　間：2021/12/16（Thursday）14:00 ~ 15:00

地　點：**本次為視訊演講**

Google Meet Link：https://meet.google.com/vsk-vjgd-wfb

Abstract

Warped product manifolds have been studied with a great interest in recent years, both in geometry and physics. Given two Riemannian manifolds (B, g_B) and (F, g_F) and a positive smooth function $f : B \longrightarrow \mathbb{R}$, the product manifold $B \times F$ with the metric

$$g = g_B + f^2 g_F$$

is called the warped product, and denoted by $(B \times_f F, g)$. The warped products are closely related with Einstein manifolds. A natural generalization of Einstein manifolds is the Ricci solitons. A Ricci soliton is a Riemannian manifold (M, g) together with a vector field X that satisfies the equation

$$\mathrm{Ric} + \frac{1}{2}\mathcal{L}_X g = \lambda g \qquad (1)$$

for some constant $\lambda \in \mathbb{R}$. It is natural to wonder under which conditions a warped product is a Ricci soliton. In this talk, we will give a brief introduction to warped products and Ricci solitons, and then we will discuss some results in the literature.

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