

國立中山大學應用數學系

學術演講

講者：蔣翼邁教授

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講題：Nevanlinna theory based on
Askey-Wilson operator

時間：2015/1/14（星期三）16：10 ~ 17：00

地點：理學院四樓理 SC 4009-1 室

茶會：15:30 於理 SC 4010 室（系辦公室）

摘要

There has been renewed interests of classical Nevanlinna theory with respect to difference operator in recent years, mainly due to study of integrability of non-linear difference equations (see Ablowitz, Halburd, Korhonen, etc). We show that there is a deep connection between Nevanlinna theory and Askey-Wilson divided difference operator related to special functions. We use such a function theory to give a new viewpoint on many well-known q -identities involving infinite products and infinite sums. We shall also report on recent development of the Wilson operator when time allows. These are joint projects with Shaoji Feng and Kam-Hang Cheng.

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