

# 國立中山大學應用數學系

## 學術演講

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講題：Templates for Design Key Construction

時間：2014/04/17（星期四）14：10～15：00

地點：理學院四樓理 SC 4009-1 室

茶會：15:00 於理 SC 4010 室（系辦公室）

### 摘要

Some useful templates for implementing design key construction of factorial designs with simple block structures, in particular those for the construction of blocked and split-plot factorial designs will be presented. The traditional method of constructing such designs is to use some independent treatment factorial effects to partition the treatment combinations into blocks, rows, columns, etc. One advantage of the design key construction is that a set of independent generators and the constraints imposed by the structures of the experimental units are built in the template, which facilitates a systematic and simple construction of the design layout and eliminates the need to check some conditions for design eligibility when the traditional method is used.

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