

# 國立中山大學應用數學系

## 學術演講

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講題：Exotic constructions in Banach spaces

時間：2015/1/16（星期五）16：10～17：00

地點：理學院四樓理 SC 4011 室

### 摘要

It is obvious and well known fact that the geometry and topology of finite dimensional Banach spaces changes substantially when we pass to the case of infinite dimension. This is mainly caused by the fact that bounded and closed subsets of infinite dimensional space are, not necessarily compact. Especially all balls are not compact. In consequence of that, many classical theorems valid in finite dimensional spaces fail in this more general setting. Within the category of infinite dimensional Banach spaces, there are also differences caused by the regularity of geometries induced by the selection of the norm.

Here we present a number of especially selected examples of such situations. The talk is directed not to specialists but to a general audience (whatever it means). The only prerequisites needed are basics of topology and functional analysis.

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