

# 國立中山大學應用數學系

## 學術演講

講 者：許菖樑 教授

Department of Mathematics, University of Kansas

講 題：Line bundles over multi-pullback quantum projective spaces

時 間：2017/06/01 (Thursday) 15:30 ~ 16:30 pm

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）

### Abstract

By realizing  $C(\mathbb{P}^n(\mathcal{T}))$  and  $C(\mathbb{S}_H^{2n+1})$  as groupoid C\*-algebras for the quantum complex projective spaces  $\mathbb{P}^n(\mathcal{T})$  constructed from the multi-pullback quantum spheres  $\mathbb{S}_H^{2n+1}$  introduced by Hajac and collaborators, we study the classification of the unitary equivalence classes of projections or equivalently the isomorphism classes of finitely generated projective modules over  $C(\mathbb{P}^n(\mathcal{T}))$  and  $C(\mathbb{S}_H^{2n+1})$ . We show that those quantum principal  $U(1)$ -bundles introduced by Hajac and collaborators can be identified with concrete elementary projections, and for the case of  $n=1$ , a full classification is completed.

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