

# TOPOLOGY AND K-THEORY OF NONCOMMUTATIVE WEIGHTED PROJECTIVE SPACES

**Tomasz Brzeziński**  
Swansea University

*25 October, 14:00-15:00*

In this talk we present results obtained jointly with Simon Fairfax and Wojciech Szymanski. Extending earlier results of Hong and Szymanski we interpret all quantum lens spaces as graph  $C^*$ -algebras and thus design an efficient method for calculating K-groups of quantum lens spaces. Some special cases (not studied earlier) serve as an illustration. Using the freeness of the actions of the circle group on quantum lens spaces that define quantum weighted projective spaces we compute the K-groups of the latter.