## SU(2)-symmetries, subproduct systems, and exact sequences of C\*-algebras

Francesca Arici

Leiden University f.arici@math.leidenuniv.nl

Motivated by the study of symmetries of C\*-algebras and by multivariate operator theory, we will introduce the notion of an SU(2)-equivariant subproduct system of Hilbert spaces. We will describe the associated Toeplitz and Cuntz–Pimsner algebras and provide results about their topological invariants through K(K)-theory.

In particular, we will show how to compute the (K)K-theory groups of the Cuntz–Pimsner algebra of an (irreducible) SU(2)-subproduct system using an exact sequence that involves an operator theoretic analogue of the Euler class.

Based on joint work with Jens Kaad (SDU Odense).