

Elmar Wagner

Compact quantum surfaces

As part of the broader project of finite noncommutative CW complexes, I will give a detailed description of noncommutative 2-dimensional quantum surfaces obtained from the Toeplitz extension. It is a nice starting point to see how classical methods of computing the K-groups carry over to the quantum case and yield the same results. Moreover, I will use Brown-Douglas-Fillmore theory (the starting point of Kasparov's KK-theory) to give a complete description of isomorphism classes along with the corresponding essentially normal generators. Joint work with Arley Sierra.