

Tomasz Maszczyk

À la recherche de l' espace perdu: Du côté de chez Swan

The talk is aimed to report results about extending to the realm of Noncommutative Topology a part of classical Algebraic Topology that is lost after passing to the Kasparov KK category. That extension uses a new structure which we call k-topology. It could be regarded as a generalized notion of diagonal for compact quantum spaces. As such, it leads to their multiplicative K-theory, extending its classical counterpart. Based on joint works with P. M. Hajac, and works in progress joint with F. D'Andrea, P. M. Hajac, A. Sheu and B. Zielinski, and with F. D'Andrea.