Stanislaw Woronowicz (Warsaw)

Drinfeld double in the C^* -algebra setting

Abstract: In the C^* -algebra setting quantum groups are constructed from multiplicative unitaries. In this procedure we obtain simultaneously a locally compact quantum group and its dual. The main achievement of the presented work is the formula for multiplicative unitary leading to double group and by duality to Drinfeld double. Then the basic properties of Drinfeld double are established.