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Pseudo-differential calculus on noncommutative special unitary groups

In this talk, I will discuss a construction of pseudo-differential for a noncommutative analogue $SU(3)_\theta$ of the special unitary group $SU(3)$ viewed as a quantum group. In geometry, pseudo-differential calculus is a global concept that is used to reveal the global geometry. The constructions very much carry over to the C^* -algebra and quantum group settings. This work is based on a collaboration with a Ph.D. student Carlos Rodriguez.