Speaker: Sergey Neshveyev (University of Oslo)

Title: Noncommutative random walks and classification of compact quantum groups of Lie type

Abstract: Compact quantum groups are noncommutative generalizations of compact groups. A natural problem, studied by a number of people and explicitly formulated by Woronowicz in the 80s, is how to classify quantum groups with representation theory “looking like” that of a compact Lie group. I will briefly explain a classification result for a large class of such quantum groups. The main goal, however, will be to discuss noncommutative random walks and their Poisson boundaries, which played a crucial role in obtaining the classification result.