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**Title:** Monoidal Equivalence of locally compact quantum groups

**Abstract:** In this talk, I will introduce the notion of monoidal equivalence for locally compact quantum groups. As with Morita equivalence for  $C^*$ -algebras, the emphasis is on the linking object, which is in this case a von Neumann algebra with special coactions on it by two locally compact quantum groups. In fact, also here, this linking object and one of the quantum groups is enough to reconstruct the other (the main issue being the construction of the invariant weights). To develop these concepts, the theory of measured quantum groupoids, as developed recently by Lesieur and Enock, is very useful. It provides for example a convenient setting to show that our notion really provides us with a monoidal equivalence of corepresentation categories for the two quantum groups.