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A class of locally compact quantum groups arising from Kohn-Nirenberg quantization

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Locally compact quantum group (LCQG) in the setting of von Neumann algebras (aka Kustermans-Vaes quantum groups), is believed to give the correct notion of symmetries of quantum spaces (in the setting of operator algebras). While this theory is fast growing, there are very few examples of (non-compact) LCQG.
In this talk, I will explain how the good old Kohn-Nirenberg quantization allows to construct a new class of LCQG (and also why the very good old Weyl quantization doesn't work here).
This is a joint work (in progress) with Pierre Bieliavsky, Lars Tuset and Sergiy Neshveyev.

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