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Mehrdad Kalantar* (kalantar@math.uh.edu). *Open quantum subgroups of locally compact quantum groups.*

We introduce the notion of an open quantum subgroup of a locally compact quantum group and give several equivalent characterizations in terms of group-like projections, inclusions of quantum group C^* -algebras and properties of respective quantum homogenous spaces. Similarly to the classical case, open quantum subgroups turn out to be closed, but in contrast to the classical case this fact is rather non-trivial. This is joint work with Pawel Kasprzak and Adam Skalski. (Received July 17, 2016)