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Quantum Group symmetry, from the Lattice to the Continuum

I will discuss some aspects of QFTs with the quantum group Uq(sl2) as a global symmetry. I will show that necessarily this symmetry implies that operators are mutually non-local. To understand these properties in detail, I will study the lattice models underlying these CFTs; using numerical methods I will identify what these non-local scaling operators are. I will end with some open questions related to understanding these properties in terms of twisted sectors of the theory.

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