CRC 1624 HIGHER STRUCTURES, MODULI SPACES AND INTEGRABILITY

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Quantum groups from Fukaya Categories

There is a family of Fukaya categories, or categories of A-branes, labeled by a choice of a Lie algebra, which categorify Chern-Simons invariants of links. I will describe how categorified quantum group symmetry, coproduct included, emerge from a certain natural set of cutting and gluing operations which these Fukaya categories posses.