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Louis H Kauffman* (kauffman@uic.edu), Math UIC, 851 South Morgan Street, Chicago, IL 60607-7045. *Rotational Virtual Links and Quantum Link Invariants*. Preliminary report.

Rotational virtual links are virtual links where the detour move is restricted to regular homotopy. All quantum link invariants for classical links generalize to rotational virtual links. We show how the theory of such invariants is closely related to the structure of a functor from the virtual tangle category to the category of a quantum algebra and we give examples of links that are not detectable by any quantum link invariants known to us at this time. (Received September 10, 2015)