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Louis Hirsch Kauffman* (kauffman@uic.edu), 5530 South Shore Drive, Apartment 7C,
Chicago, IL 60637-1946. *Knot Invariants and Functional Integration*. Preliminary report.

This talk will revisit the subject of defining quantum link invariants and formulating loop quantum gravity theory by using functional integrals, integrating over gauge connections. We will look at those properties of this subject that can be seen via the equivalence classes of functions on gauge connections where two such are equivalent if their difference is the gauge functional derivative of a function on connections that is rapidly vanishing at infinity. (Received May 31, 2012)