More thoughts

March 5, 2017   12:18 PM

Title. The Dogma is Wrong.

Abstract. It has long been known that there are knot invariants associated to semi-simple Lie algebras, and there has long been a dogma as for how to extract them: "quantize and use representation theory". We present an alternative and better procedure: "centrally extend, approximate by solvable, and learn how to re-order exponentials in a universal enveloping algebra". While equivalent to the old invariants via a complicated process, our invariants are in practice stronger, faster to compute (poly-time vs. exp-time), and clearly carry topological information.

This is joint work with Roland van der Veen and continues work by Rozansky and Overbay.

Title: "opportunity"

Abstract. "Opportunity" is when someone presents you with a half-finished idea, which clearly has a great potential, and which he can't complete but only because of his psychological limitations.