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## The Physics and Number Theory of the A-polynomial

The zero locus of the A-polynomial defines an algebraic curves that, via generalized volume conjecture, connects standard quantum group invariants with complex Chern-Simons theory. This connection predicts many new number theoretic properties of the A-polynomial and explains familiar ones (e.g. the quantizability condition and the K-theory constraint in the joint work with P.Sulkowski).