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Department of Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Current status on polynomial invariants of knots- attempt towards classification

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Date: Oct. 30, 2017
Time: 11.30 am
Venue: A-304, TIFR

I will describe the methodology of obtaining knot invariants from Chern-Simons field theory after reviewing well-known knot polynomials. One of the challenging open problem is the classification of knots. To check the power of Chern-Simons field theoretic invariants, we investigate mutant knot pairs which are indistinguishable by well-known polynomials. Finally, I will review the developments providing justification for integer coefficients of the Laurent form of knot polynomials.

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