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Title of Talk: Coloring Invariant and Determinants in Knot Theory

Abstract:

I have studied the Coloring Invariant and matrices associated with Knot theory. I have looked at different conjectures associated with the Coloring Invariant and a special category of knots called pretzel knots which include: 1) The determinant of a (m, n) pretzel is $|n + m|$. 2) A (n, m) pretzel is a link when both m and n are even or odd. Otherwise the pretzel is a link. And, 3) the determinant is divisible by 2 if the pretzel is a link.