An algorithm to calculate Miyazawa polynomials of virtual knots

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In 2004, Y. Miyazawa discovered a method to define polynomial invariants for a virtual knot, which are generalization of Kauffman's f-polynomial. They enable us to distinguish Kishino's knot from a trivial knot. This August we announced a table of virtual knots with four real crossings classified by use of Miyazawa polynomials, JKSS invariants and 2-cabled Jones polynomials. In order to get the table and calculate invariants, we made a computer program. In this talk, we introduce an algorithm to calculate two kinds of Miyazawa polynomials from a Gauss chord diagram of a virtual knot.