

ON MIYAZAWA'S INVARIANTS FOR VIRTUAL LINKS

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Y. Miyazawa introduced a polynomial invariant for a virtual link at the regional conference in Yamagata, Japan, on January 2004. It is valued in $\mathbf{Z}[A, A^{-1}] + \mathbf{Z}[A, A^{-1}]h$. The Jones polynomial (f -polynomial) is obtained from Miyazawa's polynomial by substituting 1 for h . The f -polynomial for a virtual link diagram is defined from the Kauffman bracket polynomial by normalizing writhe effects. Miyazawa's polynomial is defined from a modification of Kauffman bracket for a magnetic graph diagram. We discuss the feature of Miyazawa's polynomials.

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