

Link Theory

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1 Definitions

Kauffman bracket invariant,

$$\bigcirc = -A^2 - A^{-2} = d$$

$$\begin{array}{c} \diagup \diagdown \\ \diagdown \diagup \end{array} = A \left(\begin{array}{c} \diagup \diagdown \\ \diagup \diagdown \end{array} \right) \left(\begin{array}{c} \diagdown \diagup \\ \diagdown \diagup \end{array} \right) + A^{-1} \left(\begin{array}{c} \diagdown \diagdown \\ \diagup \diagup \end{array} \right)$$

$$\begin{array}{c} \diagdown \diagup \\ \diagup \diagdown \end{array} = A^{-1} \left(\begin{array}{c} \diagdown \diagup \\ \diagdown \diagup \end{array} \right) \left(\begin{array}{c} \diagup \diagdown \\ \diagup \diagdown \end{array} \right) + A \left(\begin{array}{c} \diagup \diagup \\ \diagdown \diagdown \end{array} \right)$$