

Configuration space integral for long n-knots, the Alexander polynomial and knot space cohomologyPasted from <<http://arxiv.org/abs/math/0609742>>

(3.1)

$$\begin{array}{ccc} ST & = & \text{Diagram 1} \\ \text{Diagram 1} & & \text{Diagram 2} \\ SU & = - & \text{Diagram 3} \\ \text{Diagram 4} & & \text{Diagram 5} \\ \text{Diagram 6} & = - & \text{Diagram 7} \end{array}$$

The diagrams consist of nodes (black dots) connected by solid and dashed lines with arrows indicating orientation. Diagram 1 shows two nodes connected by a solid line with arrows pointing away from each other. Diagram 2 shows two nodes connected by a dashed line with arrows pointing towards each other. Diagram 3 shows three nodes in a triangle with dashed lines and arrows. Diagram 4 shows a node with a solid line pointing away and a dashed line pointing towards it. Diagram 5 shows a node with a dashed line pointing away and a solid line pointing towards it. Diagram 6 shows a node with a solid line pointing away and a dashed line pointing away. Diagram 7 shows a node with a dashed line pointing towards and a solid line pointing towards.