

1106-57-434

Bo-hyun Kwon*, 2312 Frisco Way, Edmond, OK 73012. *On the Jones polynomial of $2n$ -plat presentations of knots.* Preliminary report.

In this paper, a method is given to calculate the Jones polynomial of the 6-plat presentations of knots by using a representation of the braid group \mathbb{B}_6 into a group of 5×5 matrices. We also can calculate the Jones polynomial of the $2n$ -plat presentations of knots by generalizing the method for the 6-plat presentations of knots. Also, it helps us detect 3-bridge knots in 3-plat presentations. (Received August 28, 2014)