## On the first two Vassiliev invariants of torus knots

阿部翠空星(京都大学数理解析研究所)

## 概要

We consider  $\mathbb{R}$ -valued Vassiliev invariants of degree 2 and 3 respectively normalized on condition that we take values 0 on the unknot and 1 on a trefoil. We give a cubic curve related to Vassiliev invariants of degree 2 and 3 for any *n*crossing diagram of torus knots. Moreover, we show that for any *n*-crossing diagram of torus knots, the Vassiliev invariant of degree 3 divided by the cubic *n* is from -1/24 to 1/24(S.Willerton Conjecture).