Ribbon torus knots presented by virtual knots with up to 4 crossings

Taizo Kanenobu

OCAMI, Osaka City University

Abstract. A ribbon torus knot embedded in the 4-space is presented by a welded virtual knot through the Tube operation due to Shin Satoh. We make an attempt of classification of ribbon torus knots presented by virtual knots with up to 4 crossings, where we use the list of virtual knots enumerated by Jeremy Green. We make use of the classification of the groups of the virtual knots with up to 4 crossings due to Atsushi Ichimori.