On the Matveev's complexity of knot complements in thickened surfaces

Evgeny A. Fominykh *(Chelyabinsk State University)*,
efominykh@gmail.com

Recently, A. Akimova, S. Matveev and L. Nabeeva tabulated all prime knots in a thickened torus, presented by diagrams with up to 5 crossings, and also all prime knots in a thickened Klein bottle, presented by diagrams with up to 3 crossings. In the talk we will discuss the Matveev's complexity values for the complements of these knots and the upper bound of the complexity for complements of some infinite series of knots in a thickened torus.