KAI ISHIHARA, Hiroshima University
Spatial graphs confined to tubes in the simple cubic lattice

Knots, links, and spatial graphs in the simple cubic lattice can be considered as models for polymers such as DNA and proteins. Previous research has shown that knots and links confined to a tube in the simple cubic lattice are restricted depending on the size of the tube. In this talk, we will consider spatial theta-curves and spatial handcuff graphs confined to tubes in the simple cubic lattice. This is a joint work with Koya Shimokawa.