# On the collection of complementary faces associated to the diagrams of a link (partially joint work with Colin C. Adams and Kokoro Tanaka) 

Reiko Shinjo

Waseda University


#### Abstract

Given a diagram of a link, one can ignore which strand is the overstrand at each crossing and think of it as a planar 4 -valent graph embedded on the 2sphere. This graph divides the sphere into $n$-gons, which we call faces. In this talk, we investigate the possibilities for the collection of complementary $n$-gon faces associated to the diagrams of a link.


