

# Finite type invariants for a spatial handcuff graph

Taizo Kanenobu

Osaka City University

**Abstract.** We first explain a finite type invariant, or Vassiliev invariant, for a knot. Then we consider a finite type invariant for an embedded handcuff graph in a 3-sphere: We express a basis for the vector space of finite type invariants of order less than or equal to three for a spatial handcuff graph in terms of the linking number, the Conway polynomial, and the Jones polynomial of the sublinks of the handcuff graph.