

1054-57-160

Toshio Saito* (tsaito@math.ucsb.edu), Department of Mathematics, University of California, Santa Barbara, CA 93106. *Meridionally destabilizing number of knots.*

From the viewpoint of Heegaard theory, we have two types of natural positions of knots in closed orientable 3-manifolds: a bridge position with respect to a Heegaard surface, and a core position of a handlebody bounding a Heegaard surface. The latter has a close connection to tunnel number of knots.

A concept of meridionally destabilizing number, which is defined by considering such two positions, will be introduced in this talk. We could say this together with tunnel number gives a binary complexity of knots. We will then discuss its behavior for composite knots. (Received September 13, 2009)