

1014-57-721

Thomas Fleming* (tfleming@math.ucsd.edu), 9500 Gilman Dr., La Jolla, CA 92093-0112, and **Akira Yasuhara** (yasuhara@u-gakugei.ac.jp), Tokyo Gakugei University, Department of Mathematics, Koganeishi, 184-8501 Tokyo, Japan. *Generalized Link Homotopy and Milnor's Isotopy Invariants*. Preliminary report.

It has long been known that a Milnor invariant with no repeated index is an invariant of link homotopy. We show that Milnor's invariants with repeated indices are invariants not only of isotopy, but also of self C_k -moves. A self C_k -move is a natural generalization of link homotopy based on certain degree k clasper surgeries. (Received September 22, 2005)