

1042-55-182

Ismar Volic*, Wellesley College, Department of Mathematics, 106 Central St., Wellesley, MA 02481, and **Brian Munson**. *Link invariants and functor calculus*.

We will describe how embedding calculus of functors can be used for studying classical links. In particular, this theory yields a classification of finite type link invariants and Milnor invariants of homotopy string links. Another novelty is that links are placed into a homotopy-theoretic framework via a certain cosimplicial model arising from embedding calculus. Higher-dimensional analogs will also be discussed. This is joint work with Brian Munson. (Received August 18, 2008)