

ABSTRACT

DIRK SCHÜTZ

We adapt Bar-Natan's scanning algorithm for fast computations in (even) Khovanov homology to odd Khovanov homology. The main difficulty comes from the sign assignments in the cochain complex, which are not local in the odd theory. To deal with this we use a mapping cone construction instead of a tensor product to handle the gluings of tangles.

The algorithm has been implemented in a computer program, and we can also use it to make efficient calculations for a concordance invariant that was recently introduced by Sarkar-Scaduto-Stoffregen.