

Higher Differentials in Khovanov Homology

Cotton Seed, Princeton University and Joshua Batson, MIT

I will describe the link splitting spectral sequence which arose out of an attempt to explain some rank inequalities observed in computations of Khovanov homology. I will give a survey of higher differentials in Khovanov homology, of which the link splitting spectral sequence is one. Then I will discuss some ongoing work (again, suggested by computational evidence) to try to understand the relationship between different differentials.