

Department of Mathematical Sciences

Spring 2019 Colloquium Series

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About Contractible Transformations of Graphs

In [A. V. Ivashchenko, Contractible transformations do not change the homology groups of graphs, Discrete Mathematics 126 (1) (1994) p 159,170], Ivashchenko started with the study of contractible graphs, he began with this because they have application to molecular spaces. But in a second paper [A. V. Ivashchenko, Some properties of contractible transformations on graphs, Discrete Mathematics 133 (1) (1994) p 139,145], he made several mistakes. We will review in this talk that the results in that second paper are false or the proofs are wrong. Also we will see that the transformations of Ivashchenko can become a succession of elementary collapses.