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Ordinary voltage graphs, pseudosurfaces, and derived cellular homology.

Ordinary voltage graph imbeddings provide a way to combinatorially encode regular (branched) coverings of cellular 2-complexes. While it is somewhat easy to determine up to homeomorphism what the covering space is, it is far more difficult to predict the imbedding of the resulting graph in the covering space. We will survey our recent results which partially describe the graph imbedding in the covering space in terms of cellular homology.