

عنوان مقاله:

Vertex decomposability of complexes associated to forests

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خلاصه مقاله:

In this article, we discuss the vertex decomposability of three well-studied simplicial complexes associated to forests. In particular, we show that the bounded degree complex of a forest and the complex of directed trees of a multidiforest is vertex decomposable. We then prove that the non-cover complex of a forest is either contractible or homotopy equivalent to a sphere. Finally we provide a complete characterization of forests whose non-cover complexes are vertex decomposable.

کلمات کلیدی:

Bounded degree complex, non-cover complex, complex of directed trees, vertex decomposable complex, forests

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