

Graphs with the Same Truncated Graphic Matroid

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Hassler Whitney described when two graphs have the same graphic matroid. In our talk we characterized the circuits of the truncated graphic matroid of a graph and discuss when two graphs have the same truncated graphic matroid. Our main Theorem is: if G and H are graphs with the same truncated graphic matroid, then there are two possibilities: (1) G and H have the same matroid or (2) the structure of G and H is the following: either a cycle, or a subdivision of K_4 , or a subdivision of θ -graph, or a cycle with a dangling edge.

Keywords: graphs, matroids, bases, circuits, and symmetric difference