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 $\theta$-graph, or a cycle with a dangling edge.

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