

## Daniel Slilaty

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# An Algebraic Characterization of Projective Planarity of Graphs

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Abstract for the Combinatorics and Number Theory Seminar 2001 December 19

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Hassler Whitney gave us the theorem that a graph  $G$  is planar if and only if there exists a graph  $G'$ , on the same edge set as  $G$ , whose cocycle space is equal to the cycle space of  $G$ . We will discuss a similar theorem characterizing graphs that imbed in the projective plane. We will also discuss the difficulties involved in making similar statements for other closed surfaces.

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