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Vaidy Sivaraman* (vaidy@math.ohio-state.edu), **John Maharry**, **Neil Robertson** and **Daniel Slilaty**. *Flexibility of projective-planar graphs*.

We give a set of operations that completely accounts for the flexibility of non-planar graphs on the projective plane. Understanding the flexibility of graphs on the projective plane sheds light on the signed-graphic matroid isomorphism problem in the regular case. Also, the result has several interesting corollaries, one of which states that if a 3-connected graph has a 4-representative embedding in the projective plane, then that is the only embedding of the graph in the projective plane. (Received January 17, 2012)