On the sum of graphic matroids

Csehi Csongor

There is a conjecture that if the sum of graphic matroids is not graphic then it is nonbinary. Some special cases have been proved only, for example if several copies of the same graphic matroid are given. If there are two matroids and the first one can be drawn as a graph with two points, then a necessary and sufficient condition is given for the other matroid to ensure the graphicity of the sum. Hence the conjecture holds for this special case.