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Bert Gerards* (bert.gerards@cwi.nl). *Characterizing graphic matroids by a system of linear equations*. Preliminary report.

Given a rank- r binary matroid we construct a system of $O(r^3)$ linear equations in $O(r^2)$ variables that has a solution over $\text{GF}(2)$ if and only if the matroid is graphic. This is joint work with Jim Geelen. (Received January 18, 2012)