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Phased Matroids from Gain Graphs. Preliminary report.

Phased matroids are a complex analog of oriented matroid. Gain graphs are graphs whose edges are invertibly labelled from a group. Gain graphs whose group is that of complex units naturally generate phased matroids which are analogous to graphic matroids. I will report on some aspects of this development.

This is joint work with Laura Anderson. (Received December 04, 2012)