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Greg Muller*, 2119 Glencoe Hills Dr, Apt 1, Ann Arbor, MI 48018. *Opposite g-vectors*. Preliminary report.

Negating the exchange matrix has no effect on a cluster algebra or the cluster variables, but it has a significant effect on the g-vectors of those cluster variables. The map which sends a g-vector to the corresponding 'opposite g-vector' can be given by tropicalizing a maximal green sequence of Y-mutations. Time permitting, I will show how this is a consequence of a conjectural duality in theta functions. (Received March 21, 2017)