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**Sawyer Jack Robertson\*** (sawyerjack@ou.edu), Norman, OK , and **Javier Alejandro Chávez-Domínguez**. *Kantorovich Duality and Signature Balance for Generalized Signed Graphs*.

A twofold generalization of results from the theory of signed graphs to the case of signatures taking values in arbitrary groups which then act on a normed space. The first concerns the notion of signature balance, establishing a three-part characterization of the trait demonstrated by some signatures. The second is a Kantorovich-type duality between Lipschitz- and Arens-Eells-type function spaces whose norm and generator structures, respectively, incorporate the signature. (Received September 16, 2019)