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Jennifer Biermann, Selvi Kara, Kuei-Nuan Lin and Augustine O’Keefe*
(aokeefe@conncoll.edu). *Toric ideals of vertex-weighted oriented graphs.*

One can naturally extend the notion of the toric edge ring of a simple graph to that of vertex-weighted oriented graphs (VWOGs). In this talk, we focus on finding generators of the associated toric ideal of particular classes of VWOGs. In particular, we determine when the toric ideal has at most one generator. (Received September 21, 2021)