

1165-13-299

Jay Schweig*, 401 Mscs, Stillwater, OK 74078-0001. *Some combinatorial ways to look at toric ideals.*

We consider several classes of toric ideals (related to toric maps of certain matroids, specially generated Borel ideals, etc), and show how to combinatorially interpret generating sets and Grobner bases. The construction, implicit in a lot of work on toric ideals, involves families of directed graphs that correspond to level sets of the toric map. We will also talk about ongoing work, as well as some related open problems. (Received January 19, 2021)