

1135-VO-1745      **Ralph Morrison\*** (10rem@williams.edu). *Tropical hyperelliptic curves in the plane.*

Classically, any hyperelliptic curve admits a non-degenerate planar representation with an equation of the form  $y^2 = f(x)$ .

I will show that tropically, things are far more restrictive: tropical hyperelliptic curves in the plane are limited to a basic type of graphs called chains, with nontrivial conditions on the achievable metrics. (Received September 24, 2017)