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)