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**Korben Allen Rusek\*** ([krusek@math.tamu.edu](mailto:krusek@math.tamu.edu)), Texas A&M, Math Dept MS 3368, College Station, TX 77843. *Non-Archimedean Tropical Discriminants*.

We study  $A$ -discriminants from a non-Archimedean point of view, refining earlier work on the tropical discriminant. In particular, we study the case where  $A$  is a collection of  $n+m+1$  points in  $Z^n$  in general position. For general  $m$ , we bound the number of connected components of the complement of the amoeba closure. For fixed  $m$ , this bound is polynomial in  $n$ , whereas obvious bounds from Kapranov's non-Archimedean theorem are exponential in  $n$ . (Received September 26, 2012)