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**Danko Adrovic\*** ([adrovic@math.uic.edu](mailto:adrovic@math.uic.edu)), Dep. of Math., Stat., and Comp. Sci., University of Illinois at Chicago, 322 Science and Engineering Offices (M/C 249), Chicago, IL 60607-7045, and **Jan Verschelde** ([jan@math.uic.edu](mailto:jan@math.uic.edu)), Dep. of Math., Stat., and Comp. Sci., University of Illinois at Chicago, 322 Science and Engineering Offices (M/C 249), Chicago, IL 60607-7045. *Tropical approach to the cyclic  $n$ -roots problem.*

We give a tropical method to address the cyclic  $n$ -roots problem. We focus on the case when  $n = m^2$  and show how cones of tropisms lead to exact representation of its positive dimensional solution sets. For this specific case, our result offers a tropical version of the lemma of Backelin. (Received August 07, 2012)