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DISCRETE MALKIN BIFURCATION FUNCTIONS

We are interested in the persistence of  $\omega$ -periodic solutions in non-autonomous  $\omega$ -periodic difference systems in arbitrary finite dimension. We construct the so-called discrete Malkin bifurcation functions, showing an analogy with the continuous case. Our results complement the ones obtained by Pötzsche in 2013 or Gasull-Valls in 2022.