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T. H. Le and **Y.-R. Liu*** (yrliu@uwaterloo.ca). *Equidistribution of polynomial sequences in function fields.*

We prove a function field analog of Weyl's classical theorem on equidistribution of polynomial sequences. Our result covers the case when the degree of the polynomial is greater than or equal to the characteristic of the field, which is a natural barrier when one tries to apply the Weyl differencing process to function fields. We also discuss applications to van der Corput and intersective sets in function fields. (Received September 09, 2013)