▸ NEER BHARDWAJ, GAL BINYAMINI, *Approximate Pila-Wilkie type counting for complex analytic sets.*
Department of Mathematics, Weizmann Institute of Science, Rehovot, Israel.
E-mail: neer.bhardwaj@weizmann.ac.il.
Department of Mathematics, Weizmann Institute of Science, Rehovot, Israel.
E-mail: gal.binyamini@weizmann.ac.il.

Habegger [1] developed a variation of the Pila-Wilkie counting theorem, wherein they bound the number of rational points of bounded height that approximate, in a specific sense, sets definable in a polynomially bounded o-minimal structure. Working with this theme, we focus on bounded complex analytic sets, but improve on the relevant *Pila-Wilkie constant* so that it is, in a precise sense, more universal and does not depend as such on the specific set. Our tools involve, in particular, basic Nevanlinna theory; and our new feature entails applications such as a *transcendence measure* increment to Pila's Ax-Lindemann-Weierstrass argument, and certain computability results with regards to the Pila-Wilkie type constants involved. This is joint work with Gal Binyamini.

[1] Philipp Habegger, *Diophantine approximations on definable sets*, ***Selecta Mathematica. New Series***, vol. 24 (2018), no. 2, pp. 1633–1675.