1167-42-299 **Ayla Gafni** (`iosevich@gmail.com`) and **Alex Iosevich\*** (`iosevich@gmail.com`), 145 Dunrovin Lane, Rochester, NY 14618, and **Emmett Wyman** (`emmett.wyman@gmail.com`), Department of Mathematics, Northwestern University, Evanston, IL 60208. *Uniform distribution, fractals, and combinatorial geometry.*

We are going to develop a mechanism for studying uniform distribution problems on fractals and in "variable coefficient" settings. We shall then apply this mechanism to the study of certain approximate versions of classical incidence theorems and diophantine problems in number theory and combinatorics. (Received March 09, 2021)