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Alan Chang, **Marianna Csornyei*** (csornyei@math.uchicago.edu), **Kornelia Hera** and
Tamas Keleti. *Small unions of affine subspaces and skeletons via Baire category.*

Our aim is to find the minimal Hausdorff dimension of the union of scaled and/or rotated copies of the k -skeleton of a fixed polytope centered at the points of a given set. For many of these problems, we show that a typical arrangement in the sense of Baire category gives minimal Hausdorff dimension. (Received February 20, 2018)