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Anna Cepek* (anna.cepek@gmail.com), Bozeman, MT 59715. *The combinatorics of configuration spaces of \mathbb{R}^n .*

We approach manifold topology by examining configurations of finite subsets of manifolds within the homotopy-theoretic context of ∞ -categories by way of stratified spaces. Through these higher categorical means, we identify the homotopy types of such configuration spaces in the case of Euclidean space in terms of the category Θ_n . (Received February 11, 2021)