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Abstract for the Colloquium 2014 December 12

I show that it is always possible to find n points in the d -dimensional faces of an nd -dimensional convex polytope P so that their center of mass is a target point in P . Equivalently, the n -fold Minkowski sum of the polytope's d -skeleton is the polytope P scaled by n . This verifies a conjecture by Takeshi Tokuyama.

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Last update: **2020/01/29 19:03**

