

1117-52-171

**Matthias Reitzner\*** ([matthias.reitzner@uos.de](mailto:matthias.reitzner@uos.de)), University of Osnabrueck, Institute for Mathematics, Albrechtstr. 28A, 49076 Osnabrueck, Germany. *Random Points on a Halfsphere.*

Choose  $n$  random points on a halfsphere and denote by  $P_n$  the spherical convex hull of these points. Combinatorial and metric properties of the random polytope  $P_n$  are investigated as the number  $n$  of points tends to infinity. Of particular interest are the number of vertices and facets, the volume, and the Hausdorff distance of  $P_n$  to the halfsphere. (Received January 12, 2016)