1026-52-50   **Imre Bárány*** (`barany@renyi.hu`), Rényi Institute, PoB 127, Budapest, 1364, Hungary. *Random convex chains.*

Assume K is a convex body in the plane and let X_n be a random sample of n independent points chosen uniformly from K. Define Y as the maximal size subset of X_n that is in convex position, that is, no point from Y is in the convex hull of the other points of Y. The aim of this talk is to explain several properties of Y. It turns out, for instance, that $|Y|$ is strongly concentrated near its expectation. This implies that the convex hull of Y has a limiting shape. (Received January 31, 2007)