Karoly Bezdek* (bezdek@math.ucalgary.ca), University of Calgary, Department of Mathematics and Statistics, Calgary, Alberta T2N 1N4, Canada, and Zsolt Langi (zlangi@math.bme.hu), Budapest University of Technology, Department of Geometry, Budapest, Hungary. *Bounds for outer parallel domains of unit ball packings.

We give upper bounds for the density of finite unit ball packings within their outer parallel domains and discuss a connection to contact numbers. Also, packings of soft balls are introduced and upper bounds are given for the fraction of space covered by them. (Received September 01, 2014)