1046-52-1527 Karoly Bezdek* (bezdek@math.ucalgary.ca), Dept. of Math. and Stats., Univ. of Calgary, Calgary, Alberta T2N 1N4, Canada. On partial coverings of convex bodies by planks.

K. Bezdek raised the following problem at the "Intuitive Geometry, in Memoriam László Fejes Tóth" meeting (June 30-July 4, 08) in Budapest, Hungary: Let **B** be an o-symmetric convex body of minimal width 1 in d-dimensional Euclidean space \mathbf{E}^d . Moreover, let w_1, w_2, \ldots, w_n be positive real numbers satisfying the inequality $w_1 + w_2 + \cdots + w_n < 1$. Then prove or disprove that the planks $\mathbf{P}_1, \mathbf{P}_2, \ldots, \mathbf{P}_n$ of width w_1, w_2, \ldots, w_n in \mathbf{E}^d cover the largest possible volume of \mathbf{B} if $\mathbf{P}_1 \cup \mathbf{P}_2 \cup \ldots, \cup \mathbf{P}_n$ is a plank of width $w_1 + w_2 + \cdots + w_n$ with o being its center of symmetry. In the talk we present some partial results. (Received September 15, 2008)