Meeting: 1002, Pittsburgh, Pennsylvania, SS 2A, Special Session on Convexity and Combinatorics

1002-52-10 **Zokhrab Mustafaev*** (`zmustafaev@ithaca.edu`), 1212 Williams Hall, Department of Math/CS, Ithaca College, Ithaca, NY 14850. *On the perimeter and area of the unit disc in Minkowski planes.* Preliminary report.

In this talk we show that the ratio of the Minkowski length of unit 'circle' to the Holmes-Thompson area of the unit disc is greater than or equal to 2, and that ratio 2 is achieved only for Minkowski planes which are affine equvalent to Euclidean plane. In other words, the ratio is 2 only when the unit 'circle' is an ellipse. (Received May 21, 2004)