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T. Bisztriczky* (tbisztri@math.ucalgary.ca), 2500 University Drive NW, Calgary, Alberta ,
Canada, **K. Boroczky**, Budapest, Hungary, and **A. Heppes**, Budapest, Hungary. *The $T(5)$
Property of Families of Overlapping Unit Disks.*

We consider a finite family F of unit disks in the plane with the properties: $T(k)$: Any k -element subfamily of F has a (line) transversal, and $O(d)$: The distance between the centres of any two elements of F is greater than d . It is well known that F has a transversal in each of the following cases: $k=3$ and $d=2\sqrt{2}$ (sharp), $k=4$ and $d=4/\sqrt{3}$ (sharp) and $k=5$ and $d=2$.

In this preliminary report, we present arguments that F has a transversal in the case that $k=5$ and $d=\sqrt{3}$. (Received September 02, 2010)