1009-52-122 **Andreas Holmsen*** (andreash@mi.uib.no), Department of Mathematics, Johannes Brunsg. 12, 5008, Bergen, Norway. *The Katchalski-Lewis transversal problem in* $\mathbf{R}^d$.

Let F be a family of disjoint translates of a compact convex set in the plane. In 1980 Katchalski and Lewis showed that there exists a constant k, independent of F, such that if every three members of $\mathcal{F}$ are met by a line, then a "large" subfamily $G \subset F$, with $|F \setminus G| \leq k$, is met by a line. We present a higher-dimensional analogue containing the original Katchalski-Lewis result. (Received August 11, 2005)