On the Construction of Small (l, t)-blocking Sets in $PG(2, q)$

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An (l, t)-blocking set S in $PG(2, q)$ is a set of l points such that every line of $PG(2, q)$ intersects S in at least t points, and there is a line intersecting S in exactly t points. In this paper we present examples of $(4q, 3)$-blocking sets containing 4 lines, and $(5q + 1, 4)$-blocking sets containing 5 lines.