Large symmetric configurations in translation planes

(Talk)

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We describe a construction of symmetric \((q^3)^{2q-1}\) configurations embedded in translation planes of order \(q^2\). The construction utilizes the Bruck-Bose representation of translation planes in \(PG(4, q)\) and is similar to Buekenhout’s construction of unitals using ovoidal cones. We use a hyperbolic cone in \(PG(4, q)\) instead.

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