The algebra of Steiner systems

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Abstract. A Steiner k-system (P, B) is a set of points P and a set of blocks $B \subseteq \mathfrak{P}_k(P)$ (the set of k-element subsets of P). This talk is about representing Steiner k-systems by equational classes of algebras. This can be done for k being a prime power q and for k being one more than a prime power q.