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Sung Y Song* (sysong@iastate.edu), Department of Mathematics, Iowa State University,
Ames, IA 50011. *Construction of partial geometric designs over finite fields*. Preliminary report.

We study a class of (q -analog) t -designs over finite fields and their intersection numbers. We use these to construct non-trivial partial geometric designs over finite fields. (Received August 12, 2016)