

**Fujiwara, Yuichiro**

**Infinite classes of anti-mitre and 5-sparse Steiner triple systems.** (English) Zbl 1089.05012  
*J. Comb. Des.* 14, No. 3, 237-250 (2006).

Constructions for Steiner triple systems admitting no mitre configuration are given, demonstrating that anti-mitre Steiner triple systems exist for 13/14 of the admissible orders. It has since been shown that an anti-mitre STS( $v$ ) exists whenever  $v \equiv 1, 3 \pmod{6}$  and  $v \neq 9$ , see *A. Wolfe*, [*J. Comb. Des.* 14, 229–236 (2006; [Zbl 1089.05013](#) below)]. In addition, the paper presents a new construction for 5-sparse (that is, both anti-Pasch and anti-mitre) Steiner triple systems.

Reviewer: [Charles J. Colbourn \(Tempe\)](#)

**MSC:**

[05B07](#) Triple systems

Cited in **1** Review  
Cited in **7** Documents

**Keywords:**

mitre configuration; Pasch configuration; 5-sparse STS

**Full Text:** [DOI](#)

**References:**

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