

MR1271854 (95c:05019) 05B07**Calahan-Zijlstra, Rebecca** [[Calahan, Rebecca S.](#)];**Gardner, Robert B.** [[Gardner, Robert Bentley](#)] (1-ETNS)**Bicyclic Steiner triple systems. (English summary)***Discrete Math.* **128** (1994), *no. 1-3*, 35–44.

R. Peltesohn [*Compositio Math.* **6** (1938), 251–257; *Zbl* **20**, 49] proved that a Steiner triple system of order v having an automorphism consisting of a single cycle of length v , exists if and only if $v \equiv 1$ or $3 \pmod{6}$ and $v \neq 9$. In more recent years, quite a lot of work has been done on the existence problem for Steiner triple systems admitting a specified automorphism. In the present paper, the authors solve the problem for automorphisms whose disjoint cyclic decomposition consists of exactly two cycles. [Luc Teirlinck](#)

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