

**Luthar, I. S.; Trama, Poonam**

**Zassenhaus conjecture for  $S_5$ .** (English) Zbl 0729.16021  
*Commun. Algebra* 19, No. 8, 2353-2362 (1991).

This is a continuation of an article by *I. B. S. Passi* and the first author [cf. *Proc. Indian Acad. Sci., Math. Sci.* 99, 1-5 (1989; [Zbl 0678.16008](#))]. Performing very carefully more or less direct computations, the authors succeed in showing that every unit of  $ZS_5$  of one of the orders 2, 4, 6 is conjugate, under a unit of  $QS_5$ , to an element of the symmetric group  $S_5$  itself.

Reviewer: [H.A.Merklen \(São Paulo\)](#)

**MSC:**

[16U60](#) Units, groups of units (associative rings and algebras)  
[16S34](#) Group rings  
[20C05](#) Group rings of finite groups and their modules (group-theoretic aspects)

Cited in **23** Documents

**Keywords:**

[Zassenhaus conjecture](#); [unit](#); [symmetric group](#)

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

**References:**

- [1] James G., *Encyclopedia of Mathematics and its applications* 16 (1981)
- [2] Ledermann Walter, *Introduction to group characters* (1977)
- [3] DOI: [10.1007/BF02874643](#) · [Zbl 0678.16008](#) · doi:[10.1007/BF02874643](#)
- [4] Marciniak Z., *J.No.Th.*25 99 pp 340– (1987)

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