

# Units In Integral Group Rings

by Sudarshan K. Sehgal

CENTRAL UNITS OF INTEGRAL GROUP RINGS . - ResearchGate Let  $G$  be a finite group and  $U(ZG)$  the group of units of the integral group ring.  $ZG$ . In this paper we give a method for computing units of  $ZG$  where  $G$  is a finite. Units in integral group rings - ScienceDirect in integral group rings  $ZG$ , where  $G$  is not necessarily torsion. One of the main Lemma 2.1. If  $u$  is a hypercentral unit of finite order in  $ZG$  then  $u$  is trivial. Proof. torsion units in integral group rings of certain metabelian groups The remarkable paper "The units of group rings" [16] by Graham Higman was . Our work deals with a theory of units of integral group rings of finite abelian. On some problems of units in integral group rings 1 - USP In this note we classify finite groups  $G$  whose integral group ring  $ZG$  has only trivial . It follows easily that all units of a commutative group ring  $ZG$  are trivial if. INTEGRAL GROUP RINGS WITH TRIVIAL CENTRAL UNITS . - jstor Groups of units of integral group rings . - Pavel Zalesskii Units in Integral Group Rings [Sudarshan K. Sehgal] on Amazon.com. \*FREE\* shipping on qualifying offers. Wreath products have arisen in many situations in TORSION UNITS IN INTEGRAL GROUP RINGS OF JANKO SIMPLE . On the Units of Integral Group Rings. Tokyo J. of Math. 03 (1980), no. 1, 149--162. doi:10.3836/tjm/1270216089. <http://projectclid.orgclid.tjm/1270216089>.

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whether bicyclic units  $u \in U(ZG)$  exist with the property that the group  $\langle u, u^* \rangle$  is finite over  $R$ . For the most part, we will be concerned with integral group rings where. Units of integral group rings - University of Alberta Abstract. In this note finite groups  $G$  whose integral group ring  $ZG$  has only It follows easily that all units of a commutative group ring  $ZG$  are trivial if and only if: The group of units of the integral group ring  $U(ZG)$  is finite. Springer Units in Integral Group Rings via Fundamental. Domains and Hyperbolic Geometry. Ann Kiefer. ven, 5th June 2014 Units in Integral Group Rings: Sudarshan K. Sehgal - Amazon.com Title: The group of units of the integral group ring  $U(ZG)$ ; Journal: Boletim da Sociedade Brasileira de Matemática - Bulletin/Brazilian Mathematical Society A counterexample to the isomorphism problem for integral group rings 1 Oct 2015 . Abstract: Let  $G$  a finite group. The study of the group of units of the integral group ring of  $G$ , denoted  $U(ZG)$ , has attracted the attention of many Abstract UNITARY SUBGROUP OF INTEGRAL GROUP RINGS - Raco The investigations on the unit group  $U(ZG)$  of the integral group ring  $ZG$  of a finite . has been obtained for integral group rings  $ZG$  of some restricted classes of MIYATA : On the units of the integral group ring of a dihedral group Let  $V = V(ZG)$  denote the group of normalized units in the integral group ring  $Z[G]$  of the finite group  $G$ . In this paper, we show that  $G$  has a torsion-free normal INTEGRAL GROUP RINGS WITH TRIVIAL CENTRAL UNITS haus conjecture for the normalized unit group of integral group rings of Janko simple groups. As a consequence, for the Janko groups  $J_1, J_2$  and  $J_3$  we. ?Units in Integral Group Rings via Fundamental Domains and . Let  $U(ZG)$  be the integral group ring of an arbitrary group  $G$  and let  $f : G \rightarrow U(ZG)$  . generated by all the bicyclic units of  $U(ZG)$  plays an important role in the study of Algorithmic developments for units in integral group rings important to algebraists for its definitive results on units in integral group rings of finite abelian groups and its characterisation of finite groups which have only. HIGMANS CENTRAL UNIT THEORY, UNITS OF INTEGRAL . Osnabrück. September 28th - October 2nd 2015. Leo Margolis University of Stuttgart (With A. Bächle). Torsion Units in Integral Group Rings Torsion Units in Integral Group Rings - SPP Ritter, Jürgen; Sehgal, Sudarshan K. Construction of units in integral group rings of finite nilpotent groups. Bull. Amer. Math. Soc. (N.S.) 20 (1989), no. Graham Higman's Thesis Units in Group Rings Let  $ZG$  be the integral group ring of a finite group  $G$  and  $U = U(ZG)$  its group of units. If  $G$  is a finite abelian group then the torsion units of  $U$  are all trivial. Central units of integral group rings integral group ring  $ZG$  contains a subgroup of finite index which is the direct product of . The Virtual Structure Problem for unit groups of integral group rings: for a Ring Theory Seminar Introduction to Units of Integral Group . Abstract. Let  $X$  be a finite group, and denote its integral group ring by  $ZX$ . A group congruence satisfied by units in the integral group ring of a cyclic group of finite index in the group of central units of the integral group ring of a finitely generated nilpotent group. In this paper we construct explicitly a finite set of Ritter , Sehgal : Construction of units in integral group rings of finite . 4 Towards the Unit Group of the Integral Group Ring of the Group.  $Q_8 \times C_7$  sparked my interest in the subject of combining units in integral group rings with hyper-. Some results on hypercentral units in integral group rings Its unit group we denote by  $U(ZG)$ , its group of normalized units by  $V(ZG)$  and its center by  $Z$ . group  $U(ZG)$  of the integral group ring  $ZG$  for some finite groups  $G$ . Describing units of integral group rings of some 2-groups 7 Mar 2014 . Setting. Group ring. Let  $G$  be a group and  $R$  a ring. Inneke Van Gelder (Brussels). Units in integral group rings. March 3-7, 2014. 2 / 21 A structure theorem for the unit group of the integral group ring of . Torsion units in integral group rings, conjugacy classes . - LAMFA It is shown that any torsion unit of the integral group ring  $ZG$  of a finite group  $G$  is . Keywords: integral group ring; torsion unit; bimodule; Zassenhaus conjecture. Units in Integral Group Rings via Fundamental . - KU ven Kulak 23 Mar 2012 . Mathematics Rings and Algebras a basis of a subgroup of finite index in the group of central units of the integral group ring  $U(ZG)$  of a finite SEKIGUCHI : On the Units of Integral Group Rings - Projectclid VIKAS BIST. (Communicated by Maurice Auslander). ABSTRACT. Let  $U(ZG)$  be the unit group of the integral group ring  $ZG$ . A group  $G$  satisfies (\*) if either the set Let  $ZG$  be an integral group ring of a group  $G$  and let  $U(ZG)$  . - JStor MIYATA, Takehiko. On the units of the integral group ring of a dihedral group. J. Math. Soc. Japan

32 (1980), no. 4, 703--708. doi:10.2969/jmsj/03240703. INVOLUTIONS AND FREE PAIRS OF BICYCLIC UNITS  
IN . ?jugacy classes of torsion units of integral group rings by a notion of genus. The goal are precisely 4 different  
genera of finite subgroups of the group of units of