

## ON 'STRICT-HONEST' AND SUPER-HONEST' $N$ -SUBGROUPS

NAVALAKHI HAZARIKA<sup>1</sup> AND NARAYAN NAYAK

**ABSTRACT.** Extending the notion of honesty, complete-honest and strict-honest  $N$ -subgroups are introduced in near-ring groups and various characteristics of these  $N$ -subgroups are investigated. The torsion and complete-closure exhibit the super-honesty character of certain  $N$ -subgroups of  $E$ . Also the relation between strict-honest, complete-honest, complete-closed and super-honest characters of  $N$ -subgroups are established.

### 1. INTRODUCTION

The concept of honest subgroups was introduced by Abian and Rinehart in [1]. Further the concepts honest submodules, isolated submodules are studied by Fay and Joebert [8]. Further honest submodules were conferred by Jara[6] with respect to a collection of submodules. Again the notion of super-honest submodules was studied by Joubert and Schoeman [7] and Cheng [2]. Saikia and Hazarika[3] extended the concept of super-honesty in modules to nearring groups. The honest and super-honest character provides a new ore domain. In this paper we define the structures complete-closed, complete-honest and strict-honest structures in near ring and investigate their various characteristics. Torsion and closed character of an  $N$ -subgroup exhibit the relation with strict-honest, complete-honest and super-honest  $N$ -subgroups.

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<sup>1</sup>corresponding author

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