

I have read carefully the manuscript (Ref.No. 30145.) entitled
"The generalized Reed-Muller codes in a modular group algebra"

The results of the paper are new, correct, and provide with a useful addition to recently published papers [1] and [5]. The paper is well written..

First of all, the results of Subsections 3.1-3.2 of Section 3 called "Main results" are formally new and their proofs are correct. The proofs are routine ones and the people working in the field of group algebras will find them not surprising and rather easy, they are probably mentioned in between lines in the classical monograph by Curtis and Reiner (Vol. 1 and Vol 2). In particular, the isomorphism in Prop. 3.7, is not surprising for specialists, and its proof is a routine one.

The main result of the paper is presented in Subsection 3.3 on two pages 107-108. Moreover, the Example 3.4 is very useful.

By the way, it seems to me that one can make the presentation of the codes in Section 3.3 simpler if we work over the quotient ring

$$\mathbb{F}_{p^r}[X_0, X_1, \dots, X_{m-1}]/(X_0^{p^r}, X_1^{p^r}, \dots, X_{m-1}^{p^r}).$$

Let me add that relations of the main results of the paper and of the main result of the paper [1] published already, should be explained by the author in more details.