



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_11488
Title of the Manuscript:	(S, S') -gap Shifts as a generalization of Run-length-limited codes
Type of the Article1	Original ResearchArticle

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Report on: 2014_BJMCS_11488 Titled "(S, S') -gap Shifts as a generalization of Run-length-limited codes" Run-length-limited (RLL) codes are extensively used in Digital optical discs, which is always an important topic among scholars. Based on a generalization $X(S, S')$ of Run-length-limited codes, this paper investigates (S, S') -gap shifts' dynamical properties and obtains a formula for the entropy and zeta function and Bowen-Franks groups. The result is meaningful and interesting. I think, the manuscript is appropriate to appear on BJMCS after a revision and a careful checking of typos, see the following comments: (1) P.1, L.6, "is" should be "are"; (2) P.1, L.-4, "...compute entropy and the zeta function for Z" should be "...compute the entropy and zeta function for Z"; (3) P.2, L.2, "that" should be "which"; (4) P.2, L.8, there is omitting an "is"; (5) P.2, L.22, "(1.1)" should be "(2.1)"; (6) P.3, L.7, "start" should be "starts"; "end" should be "ends"; (7) P.3, L.19, there is unnecessary "it";	



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	(8) P.3, L.24, "Figure 3.1" should be "Figure 1", please check the whole paper; (9) P.3, L.-8, "Constructing" should be "Construct"; (10) P.3, L.-4, "with" should be "and"; (11) P.3, L.-2, "was" should be "is", please check throughout the whole paper.; (12) P.3, L.-1, "shows" should be "show"; (13) P.4, L.-6, "when" should be "where"; (14) P.6, L.5, there is unnecessary "as"; (15) P.6, L.5, "correspond" should be "corresponding"; (16) P.6, L.-14. "implies" should be "imply"; (17) P.7, L.-10. "an" should be "a"; (18) P.7, L.-5, there is unnecessary "that"; (19) P.8, L.7, "subsection" should be "section"; (20) P.8, L.-5, "shoes" should be "shows"; (21) P.9, L.16, "ingredients" should be "ingredient"; (22) P.12, L.-20, P.13, L.5, "a" should be "an", please check the whole paper; (23) P.14, L.6, although and but can not be used together;	
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<u>Minor</u> REVISION comments	(1) The author mark references irregularities, I think he/she can sequentially label them as [1],[2],[3]... Therefore, P.1, L.12, "...denoted by $X(d,k)$ [Marcus and et al (1992); Perry and et al (1998)]" can be "...denoted by $X(d,k)[13,17]$" and so on. (2)Some comma symbols should be deleted or added, for example: P.2, L.20; P.3, L.6; P.3, L.15; P.3, L.18... (3) P.1, L.6, I don't quite know what "SFT" stands for? (4) P.6, L.-17. "Therefore to have..." should be "In order to have..."	
<u>Optional/General</u> comments	(1) P.2, L.2. Actually, I think "In this section, we ... can be found there." should be "In this section, we will bring from [12] some basic definitions of symbolic dynamics on A". (2) P.2, L.-6. "$\chi_- = (\chi_i)_{i < 0}$" should be "$\chi_- = (\chi_i)_{i \in \mathbb{Z}^-}$"; (3) P.3, L.10. Actually, I think "In the sequel we ... $X(S)$ and $X(S')$." should be "In the sequel we will construct the Fischer cover of Z from the Fischer covers of $X(S)$ and $X(S')$, which we will need in this note".	

Reviewer Details:

Name:	J.Y. Yin
Department, University & Country	School of Mathematics and Statistics, Southwest University, Chongqing, China