



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2013_BJMCS_5743
Title of the Manuscript:	The Smooth Representations of the Unitary Group $U(1)$
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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	The nomenclature used in the paper is highly non-standard which may (and will) create confusion of the readers. Usually, the unitary group is defined as the group of complex matrices of appropriate size such that $u u^* = 1$. The author(s) of the submission use a completely different definition, related to p-adic numbers. It is a rather unusual definition; and it is highly regrettable that (1) the author(s) do not provide a reference where this definition has been used before and (2) they use the name "unitary group $U(1)$" instead of something like "p-adic unitary group $U(1, p)$". As I said, for this reason the title and the abstract of the submission are strongly misleading.	Unitary group has a more general definition than one presented here by reviewer. A unitary group is the group of isometries of Hermitian space. When the elements of the isometry group represented by matrices, we will reach the conditions presented here by the reviewer. For example look at: J. Dieudonné, <u><i>La géométrie des groupes classiques</i></u>, Second édition, Springer-Verlag, Berlin, 1963
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		