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Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_8943
Title of the Manuscript:	On Topological Structure Of The First Non-Abelian Cohomology Of Topological Groups
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.

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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)
Compulsory REVISION comments	This paper does not have a scientific error and not reduce the value of the paper. It is dealing with a good theme and written in simple language. Also, it provides valuable scientific content in the field of algebraic topology.	
Minor REVISION comments	Author must add a special section about conclusions summarizes the new results, which dealt with the paper. Also, he/she must give a vision on how to employ those results, especially in applications covered by the aim and scope of the journal sender of this paper for publication.	We added ,as section 4, the following conclusions: CONCLUSIONS: a We have proved that if G and R are locally compact groups and (A, μ) a partially crossed topological G-R-bimodule, then $\text{Der}_c(G, (A, \mu))$ is a topological group (Theorem \ref{thm 2.16}). Moreover, if the locally compact groups G and R act continuously on each other and on A compatibly then $(\text{Der}_c(G, (A, \mu)), \gamma)$ is a precrossed topological G-R-bimodule, where $\gamma: \text{Der}_c(G, (A, \mu)) \rightarrow R$, $(\alpha, r) \mapsto r$ (Proposition \ref{prop 2.23}). b We have showed that under what conditions $H^1(G, (A, \mu))$ is a topological group (Theorem \ref{thm 3.2}). In particular, if G is a locally compact group, then $H^1(G, (A, \mu))$ is a topological group for every partially crossed



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		topological G -module (A, μ) . Furthermore, we have found conditions under which $H^1(G, (A, \mu))$ is one of the following: k -space, discrete, locally compact and compact.
<u>Optional/General</u> comments		