

Review Form 3

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_121347
Title of the Manuscript:	On some stochastic parabolic systems driven by new fractional Brownian motions
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>1. Importance of the Manuscript: This manuscript is a significant contribution to the field of stochastic processes and fractional Brownian motion. It extends the theory by introducing new fractional Brownian motions and applying these to stochastic parabolic systems. The results presented are scientifically robust and offer new insights into the behavior of these systems. The manuscript's theoretical advancements have potential applications in various fields such as financial mathematics, physics, and engineering.</p> <p>2. Title Suitability: The title is appropriate and accurately reflects the content of the manuscript.</p> <p>3. Abstract Comprehensiveness: The abstract is comprehensive but could be enhanced by including a brief mention of the potential applications or implications of the results. Suggested addition: "These findings have potential applications in fields such as financial mathematics, where modeling with fractional Brownian motion is relevant."</p> <p>4. Subsections and Structure: The subsections and structure of the manuscript are appropriate. The manuscript is well-organized, and the progression of ideas is logical and clear.</p> <p>5. Scientific Correctness: This manuscript is scientifically robust and technically sound. The authors have clearly stated and proved the uniqueness and existence theorems for the stochastic systems discussed. The methodology is rigorous, and the results are presented with sufficient mathematical detail to validate the findings. The theoretical framework is well-developed and substantiated by previous research in the field.</p> <p>6. References: The references are sufficient and recent. They cover the foundational works and recent advancements in the field of fractional Brownian motions and stochastic systems.</p> <p>1. Language/English Quality: The language is generally suitable for scholarly communications. However, minor grammatical corrections and improvements in readability could enhance the manuscript. Specific areas for improvement include the consistent use of mathematical notation and clearer explanations of complex concepts.</p> <p>- The manuscript could benefit from a brief discussion on the potential practical applications of the theoretical results. - Including a few illustrative examples or simulations demonstrating the application of the results to real-world problems would make the manuscript more accessible to a broader audience.</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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