

Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_76892
Title of the Manuscript:	GLOBAL WEAK SOLUTIONS FOR THE WEAKLY DISSIPATIVE DULLIN-GOTTWALD-HOLM EQUATION
Type of the Article	Original Research 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:

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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		
Minor REVISION comments	<p>Description of the contents : In the present paper, the authors study the existence & uniqueness of the global weak solutions of the weakly dissipative Dullin-Gottwald-Holm equation describing the unidirectional propagation of surface waves in shallow water regime. The authors find that if the initial data satisfies certain sign conditions then the equation has corresponding strong solution which exists globally in time.</p> <p>Referee's evaluation : This paper aims to keep on the study of the global weak solutions of the weakly dissipative Dullin-Gottwald-Holm equation (DGH equation). It can be viewed as a nice contribution that extends the classical case when authors studied the finite time blowup criteria on the Cauchy problem for the weakly dissipative DGH equation. The paper is well written & valuable, the results are new and I found them quite interesting. The proofs of the results in the manuscript under consideration are correct. The authors made very careful and detailed proofs making this paper easy to read. The quality of English in this paper is generally good, but it could be made even better by further proofreading, with particular attention to punctuation and articles (a/an/the). Although there are some comments spread along the paper, my specific comments follow :</p> <ol style="list-style-type: none"> (1) In the abstract, replace " in this thesis " by "In this paper " . (2) Please, rewrite and add, the key words that suit your paper, at least 4 keywords (you can add weak solution, wave equation) (3) Check the AMS Subject Classification 2010. (4) In my opinion , you can separate the" introduction" to the new section " Notations and main results" (5) In pg 6 (line 16) and in Section 'Global Weak Solutions', line 16, line 3 and line 18 you used the Sobolev's embedding theorem, in my opinion you can enrich the paper by its following related references : <ul style="list-style-type: none"> S.L. Sobolev, on a theorem of functional analysis, Mat.sb. 4(46) 1938, 39-68 (translated into english in 1963). R. A. Adams, Sobolev Spaces, Academic Press, New York, 1975. J. Necas, Introduction to the theory of nonlinear elliptic equations, teubner, Leipzig, 1983. (6) In pg 8, line 22, replace " By Gornwall's " by "By Gronwall's " . (7) In pg 9, line 4, replace " Assume that and that" by "Assume that " . (8) In pg 16, In the periodic case, you give the corresponding theorem 3.1 without more details and comments. So, you can give more explanations and discussions about this spacial case. <p>Recommendation : In general, based on my previous comments, after minor revision, I recommend the paper for publication in the Journal of Advances in Mathematics and Computer Science (JAMCS). The END</p>	

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Optional/General comments		
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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>	

Reviewer Details:

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