

## Accepted Manuscript

Investigation of the logarithmic-KdV equation involving Mittag-Leffler type kernel with Atangana-Baleanu derivative

Mustafa Inc, Abdullahi Yusuf, Aliyu Isa Aliyu, Dumitru Baleanu

PII: S0378-4371(18)30520-X  
DOI: <https://doi.org/10.1016/j.physa.2018.04.092>  
Reference: PHYSA 19524

To appear in: *Physica A*

Received date : 18 January 2018  
Revised date : 25 March 2018

Please cite this article as: M. Inc, A. Yusuf, A.I. Aliyu, D. Baleanu, Investigation of the logarithmic-KdV equation involving Mittag-Leffler type kernel with Atangana-Baleanu derivative, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.04.092>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Highlights

- Logarithmic-KdV equation involving Mittag-Leffler type kernel with Atangana-Baleanu derivative is investigated.
- The existence and uniqueness analysis of the solution are reported.
- .The numerical results are obtained by using an iterative method.
- Effectiveness of Atangana-Baleanu fractional derivative over well known Caputo fractional derivative is illustrated.

Download English Version:

<https://daneshyari.com/en/article/7375202>

Download Persian Version:

<https://daneshyari.com/article/7375202>

[Daneshyari.com](https://daneshyari.com)