

## Accepted Manuscript

Nonlinear dynamics of damped DNA systems with long-range interactions

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PII: S1007-5704(17)30224-1  
DOI: [10.1016/j.cnsns.2017.06.017](https://doi.org/10.1016/j.cnsns.2017.06.017)  
Reference: CNSNS 4237



To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 23 February 2017  
Revised date: 29 May 2017  
Accepted date: 7 June 2017

Please cite this article as: J.Brizar Okaly, Alain Mvogo, R.Laure Woulaché, T.Crépin Kofané, Nonlinear dynamics of damped DNA systems with long-range interactions, *Communications in Nonlinear Science and Numerical Simulation* (2017), doi: [10.1016/j.cnsns.2017.06.017](https://doi.org/10.1016/j.cnsns.2017.06.017)

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**Highlights**

- A long-range version of the Peyrard-Bishop DNA model is investigated .
- The model takes into account Stokes and long-range hydrodynamical damping forces.
- The complex Ginzburg-Landau equation is obtained through the discrete difference operator technique.
- The breather solution solitons are obtained .

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