

# Accepted Manuscript

Hypergeometric solutions to a three dimensional dissipative oscillator driven by aperiodic forces

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PII: S0307-904X(17)30503-6  
DOI: [10.1016/j.apm.2017.07.055](https://doi.org/10.1016/j.apm.2017.07.055)  
Reference: APM 11905



To appear in: *Applied Mathematical Modelling*

Received date: 15 December 2016  
Revised date: 18 July 2017  
Accepted date: 31 July 2017

Please cite this article as: Alessio Bocci, Giovanni Mingari Scarpello, Daniele Ritelli, Hypergeometric solutions to a three dimensional dissipative oscillator driven by aperiodic forces, *Applied Mathematical Modelling* (2017), doi: [10.1016/j.apm.2017.07.055](https://doi.org/10.1016/j.apm.2017.07.055)

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## Highlights

- Complete case of the Coriolis theorem under viscous drag
- ODE solved via the hypergeometric functions.
- Solution analysis for different parameters.
- Polar trajectory. Analytic approximate solution to the ODE with dry friction.
- Fourier-Bessel expansion to evaluate integrals in the Lagrange variational method.

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