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Mass segregation phenomena using the Hamiltonian Mean Field model

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## ACCEPTED MANUSCRIPT

Mass Segregation Phenomena using the Hamiltonian Mean Field Model

J.R. Steiner and Zolacir T. O. Jr

Highlights:

- The usage of Hamiltonian Mean Field model to the study of mass segregation phenomena.
- Show that the time scale for the QSS in systems with different masses is N and not N<sup>2</sup> as for identical particles.
- We show the explicit emergence of mass segregation in one-dimensional system.

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