

Vibrations in materials with granularity Zeravcic, Z.

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PUBLICATIONS

- 1. Z. Zeravcic, W. van Saarloos and D. R. Nelson, *Localization Behavior of Vibrational Modes in Granular Packings*, Euro. Phys. Lett. **83**, 44001 (2008) [Chapter 3].
- 2. Z. Zeravcic, N. Xu, A. J. Liu, S. R. Nagel and W. van Saarloos, *Excitations of Ellipsoid Packings near Jamming*, Euro. Phys. Lett. **87**, 26001 (2009) [Chapter 2].
- 3. W. Ellenbroek, Z. Zeravcic, M. van Hecke and W. van Saarloos, *Non-affine Response: Jammed Packings versus Spring Networks*, Euro. Phys. Lett. **87**, 34004 (2009).
- 4. Z. Zeravcic, D. Lohse and W. van Saarloos, *Collective oscillations in bubble clouds*, to be submitted to JFM (2010) [Chapter 4].
- 5. Z. Zeravcic, N. Xu, A. J. Liu, S. R. Nagel and W. van Saarloos, *Response and Vibrations of Ellipsoid Packings*, in preparation (2010) [part of Chapter 2].

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CURRICULUM VITAE

I was born on the 6th of May, 1982 in Belgrade, Yugoslavia (now Serbia). I finished the Third Belgrade Gymnasium in May 2001. In the following October I started my studies at the Faculty of Physics, University of Belgrade. In July 2006 I defended my diploma degree thesis titled "Shape of the Milky Way dark halo from the 511keV line". This work was done under supervision of Prof. dr. Ivan Aničin. At the start of the following academic year, September 2006, as a PhD student I joined the group of Prof. Dr. Ir. Wim van Saarloos at the Lorentz Institute for Theoretical Physics in Leiden. The main result of the work I did during the last four years is presented in this thesis.

During my PhD I was a teaching assistant for a course in Computational Physics (spring semester 2009 and 2010) and Statistical Physics II (fall semester 2009). In the course of my studies I attended several workshops and conferences, and gave talks or presented posters about my work at meetings in the Netherlands, Italy, France, England and United States. In 2008 I spent 3 months (June-August) at University of Chicago, in the group of Prof. Dr. Sidney Nagel.

As of fall 2010, I will be employed as a postdoc at the School of Engineering and Applied Sciences, Harvard University, in the group of Prof. Dr. Michael Brenner.

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Over the past four years I grew up in some sense, shaping as a scientist. The way I turned out is due to Wim, Martin and Sid. There is no luckier PhD student than me, that had a great honor, privilege and fortune to be influenced by you!

In the end I would like to say that this thesis would not have been possible without the constant support and love from my family: mom, sis and Andrej. I hope you know how much you mean to me!