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Topology and geometry in chiral liquids

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List of publications

- Anton Souslov, Benjamin C. van Zuiden, Denis Bartolo, and Vincenzo Vitelli. *Topological sound in active-liquid metamaterials*. Nature Publishing Group: **Nature Physics**, **2017**. DOI: 10.1038/nphys4193. arXiv: 1610.06873. URL: <https://www.nature.com/nphys/journal/vaop/ncurrent/full/nphys4193.html> (visited on 07/17/2017).



Highlighted in Metamaterials: Topological order gets active, by A. Alù, Nature Physics, 2017.

- Benjamin C. van Zuiden, Jayson Paulose, William T. M. Irvine, Denis Bartolo, and Vincenzo Vitelli. *Spatiotemporal order and emergent edge currents in active spinner materials*. PNAS: **Proceedings of the National Academy of Sciences** **113** (46), 12919–12924, **2016**. DOI: 10.1073/pnas.1609572113. arXiv: 1606.03934. URL: <http://www.pnas.org/content/113/46/12919.abstract> (visited on 11/15/2016).



Highlighted in Spin City, by A. Kloppe, Nature Physics 12, 1090, 2016.

- Vinzenz Koning, Benjamin C. van Zuiden, Randall D. Kamien, and Vincenzo Vitelli. *Saddle-splay screening and chiral symmetry breaking in toroidal nematics*. The Royal Society of Chemistry: **Soft Matter**, **2014**. DOI: 10.1039/C4SM00076E. arXiv: 1312.5092. URL: <http://pubs.rsc.org/en/Content/ArticleLanding/2014/SM/c4sm00076e> (visited on 08/17/2016).



- Ekapop Pairam, Jayalakshmi Vallamkondu, Vinzenz Koning, Benjamin C. van Zuiden, Perry W. Ellis, Martin A. Bates, Vincenzo Vitelli, and Alberto Fernandez-Nieves. *Stable nematic droplets with handles*. PNAS: **Proceedings of the National Academy of Sciences** **110** (23), 9295–9300, **2013**. DOI: 10.1073/pnas.1221380110. arXiv: 1212.1771. URL: <http://www.pnas.org/content/110/23/9295> (visited on 08/17/2016).



Curriculum vitæ

I WAS BORN in Jerusalem, Israel in November 1987. I attended high school at J. S. G. Maimonides, Amsterdam, The Netherlands, where I graduated in 2007 with a VWO (nt+ng) degree. September 2008 I received my *propedeuse* degree in physics and astronomy at Leiden University. April 2011 I completed my bachelor studies in physics and astronomy at Leiden University. August 2013 I obtained my master's degree in theoretical physics at Leiden University. September 2013 I continued working with (now prof.) dr. Vincenzo Vitelli as a Doctor of Philosophy (Ph. D.) student at Leiden University.

