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Growth-induced self-organization in bacterial colonies

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Citation

You, Z. (2019, June 25). *Growth-induced self-organization in bacterial colonies*. Retrieved from <https://hdl.handle.net/1887/74473>

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<http://hdl.handle.net/1887/74473>

Author: You, Z.

Title: Growth-induced self-organization in bacterial colonies

Issue Date: 2019-06-25

Growth-Induced Self-Organization in Bacterial Colonies

Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus prof. mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op dinsdag 25 juni 2019
klokke 16.15 uur

door

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geboren te Zhangzhou (Fujian), China
in 1989

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Casimir PhD series, Delft-Leiden 2019-18

ISBN 978-90-8593-404-2

An electronic version of this thesis can be found at

<https://openaccess.leidenuniv.nl>

This work was conducted at the Lorentz Institute, Leiden University. The author was supported by funding from The Netherlands Organization for Scientific Research (NWO/OCW) as part of the Frontiers of Nanoscience program.

The cover shows a growing bacterial colony seeded from a single bacterium as an expanding universe. The number of cells are, from left to right: 2^1 , 2^3 , 2^5 , 2^7 , 2^9 , and 2^{11} . Cells are color-coded by their orientations. The white lines indicate the exponential expansion of the periphery of the colony.

To My Family and Archimedes

Contents

1	Introductions	1
1.1	Mechanics of cellular systems	1
1.2	Mechanics driven self-organization in bacterial colonies . . .	4
1.3	Outline of the thesis	11
2	Models	15
2.1	Discrete model	15
2.2	Continuum theory	18
3	Geometry and mechanics of freely expanding colonies	23
3.1	Stochastic geometry	24
3.2	Mechanics	30
3.3	Continuum theory	36
3.4	Experiment on <i>E. Coli</i> microcolony	41
3.5	Discussion and conclusion	46
4	Confinement-induced self-organization	49
4.1	Phenomena	52
4.2	Stress anisotropy drives cell alignment	59
4.3	Discussion and conclusion	70
5	Mono-to-multilayer transition	75
5.1	Simplified hard-rod model	76
5.2	Mechanics of mono-to-multilayer transition	78
5.3	Stochastic theory	79
5.4	Discussion and conclusion	90
6	Conclusion and outlook	93
	Bibliography	95
	Samenvatting	109
	Curriculum Vitæ	113

List of Publications	115
Acknowledgments	117