

# Untangling Knots Through Curve Repulsion



Department of Mathematics  
University of Oxford  
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## Abstract

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## Part I

# Introduction

Placeholder Text for Introduction

Something [3]

Also this [1]

Also ATAP [2]

Part II

# Curve Energy Reduction via Gradient Flow

## Part III

# Functional Reduction to Function Reduction

## References

- [1] Gregory Buck and Jeremey Orloff. “A simple energy function for knots”. In: *Topology and its Applications* 61.3 (Feb. 1995), pp. 205–214. DOI: 10.1016/0166-8641(94)00024-w.
- [2] Lloyd N. Trefethen. *Approximation Theory and Approximation Practice*. Extended Edition. Philadelphia, Pa: SIAM, 2020.
- [3] Chris Yu, Henrik Schumacher, and Keenan Crane. “Repulsive Curves”. In: *ACM Transactions on Graphics* 40.2 (Apr. 2021), pp. 1–21. DOI: 10.1145/3439429.