

# Untangling Knots Through Curve Repulsion

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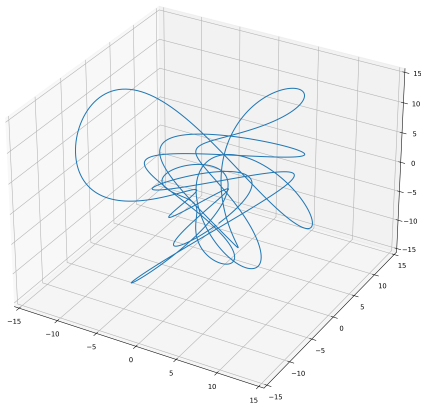
March 1, 2023



# What the curious folks ponder about

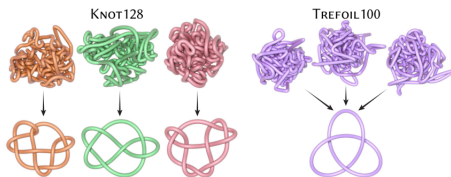
## 1 Introduction

# A Cool Knot



**Figure:** Imagine your earphones getting tangled like this...

- Finding homotopy from a knot to an unknot.



**Figure:** Unknotting while avoiding self intersections.[1]

- [1] 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.