Math 9100 Homework 1

Due Thursday, 1/30/25

- 1. Exercise 1.1.2 in Kassel–Turaev.
- 2. Exercise 1.1.5 in Kassel–Turaev.
- **3.** Modify the proof of the Alexander Lemma to show that Mod(D, 1) is trivial.
- **4.** Let D be a disk containing distinguished points x_1, \ldots, x_n . Prove that the projection p: Homeo⁺ $(D) \to \widehat{C}_n(D)$ defined by $p(f) = (f(x_1), \ldots, f(x_n))$ is a fiber bundle with fiber PHomeo⁺(D, n).