

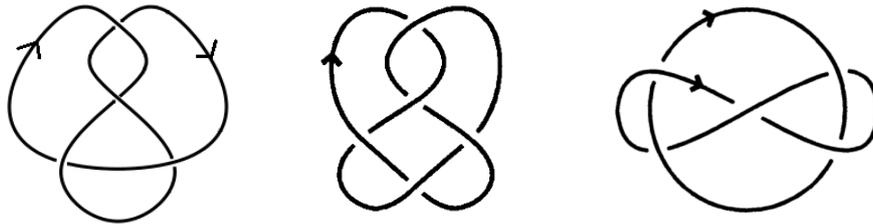
Algebraic Invariants in Knot Theory

Practicals 9

Filippo Spaggiari

29 November 2022, Prague

Exercise 1 (11.1.1). Compute the Jones polynomial of the following knots.



Exercise 2. Consider the Whitehead link above and change the orientation of the component without a twist. Compute the Jones polynomial of such diagram and compare the result with the previous one.

Exercise 3. Let D be a link diagram, and let O_m denote the m -components trivial link. Prove that

$$V_{D \sqcup O_m}(t) = (-1)^m \left(\sqrt{t} + \frac{1}{\sqrt{t}} \right)^m V_D(t).$$