

Introduction to knot theory, Spring 2012

Homework 9, due Monday, April 2

1. (a) Draw a Seifert surface for the knot 7_4 , choose a basis for $H_1(F)$ and write down the Seifert matrix for this base. Determine the Alexander polynomial of 7_4 .

(b) Do the same for the Hopf link.

Exercises 2, 3, 5 from Lickorish, page 64.

Extra credit: Lickorish, page 65, exercise 8.