

1.) What is $Z_2(S^2, 2n \text{ points})?$ Draw a picture.

2.) A wheel link In is a link of the form



Show that L3 and Ls are X-slice. Deduce that Z(s, L3) and Z(s, L5) bound QB'S.

3.) For i=3 and 5 show that $Z_2(5^3, Li)$ bounds a negative definite 4-manifold Xi whose intersection form Qi is the incidence matrix of the graph $\Gamma_i = 3 e^{-\frac{3}{2}} \frac{3}{3} i - 1$

4) Is there a lattice embedding $\varphi(Z^i, Q_i) \rightarrow (Z^i, I)$? If so, what is it? Is it cubiquitons?

5.) Read page 29 in Greene-Owens Draw for yourself the band moves and mutations completed in Figure 7.