

MTH 996: Exercises from Week 3

1. Compute the hat version of the surgery exact triangle for the triad $(S^3, S_p^3(U), S_{p+1}^3(U))$.
2. Do Exercise 1.13 in [OSz06].
3. Do Exercise 2.12 in [OSz06]. If you get stuck, you can find the proof in [OS05, Lemma 4.4].

References

- [OS05] Peter Ozsváth and Zoltán Szabó, *On the Heegaard Floer homology of branched double-covers*, Adv. Math. **194** (2005), no. 1, 1–33.
- [OSz06] Peter S. Ozsváth and Zoltán Szabó, *Lectures on Heegaard Floer homology*, Floer homology, gauge theory, and low-dimensional topology, Clay Math. Proc., vol. 5, Amer. Math. Soc., Providence, RI, 2006, pp. 29–70.