

547 - Spring 2018 - HW9

April 22, 2018

1. Prove that there is no closed 4-manifold homotopy equivalent to $S^2 \vee S^4$.
2. Compute the cohomology ring of $\mathbb{R}P^n$ with \mathbb{F}_2 coefficients.
3. Hatcher, Exercise 3.3.8.
4. Hatcher, Exercise 3.3.10.
5. Hatcher, Exercise 3.3.12.
6. Hatcher, Exercise 3.3.18.
7. Hatcher, Exercise 3.3.20.
8. Hatcher, Exercise 3.3.20.
9. Hatcher, Exercise 3.3.25.
10. Hatcher, Exercise 3.3.27.