SEMINAR "TOPOLOGICAL K-THEORY"

Date: Topic: Speaker:

1. 17. 4. Introduction/Overview   _____Banagl_____

2. 24. 4. Chapter I §1.1, 1.2   _____
          (Vector bundles, operations)

   [1. 5. Feiertag]

3.   8. 5. §1.3, 1.4 - p. 17   _____
          (subbundles, quotients, vb's on compact spaces)

4. 15. 5. p. 18 - p. 25   _____
          (collapsing, clutching)

5. 22. 5. p. 26 - §1.5 p. 33   _____
          (complem. bundles, classification, modules over C(X))

6. 29. 5. Chapter II §2.1: p. 42 - 49 (§2.2)   _____
          (Def. $K^*(X)$)

7.   5. 6. p. 50 - p. 57   _____
          (exact sequence)

8. 12. 6. §2.3 p. 57, p. 61-68 (Prop. 2.3.5)   _____
          (Bott periodicity)

9. 19. 6. p. 68 - p. 75   _____
          (Bott periodicity)

10. 26. 6. p. 76 - 78, (skip §2.4), §2.5: p. 79-84   _____
          (computations for some X)

11.   3. 7. §2.6: p. 85 - p. 90   _____
          (products)

12. 10. 7. p. 91 - 98   _____
          (products)

13. 17. 7. p. 98 - p. 103 up to Prop. 2.7.2,   _____
          p. 107 bottom - p. 110 (Thom isomorphism)

14. 24. 7. p. 111 - p. 116   _____
          (Künneth theorem, if time permits: outlook on operations in Chapter III)

The chapter/section numbers above refer to M. Atiyah, "K-Theory", Advanced Book Classics, Addison-Wesley, 1989.