Topology Seminar SS 2025: Intersection Homology.

(Prof. M. Banagl)

Date: Topic: Speaker:

1) 25. 4.: Introduction ___Banagl_____

2) 2. 5.: 1.1 (Sheaves) _____

3) 9.5.: 1.2.1 (Sheaf Cohom.), 1.3 (complexes of sheaves) _____

4) 16.5.: 2.1 (Homotopy Category), 2.2 (Triangulated Categories) _____

5) 23.5.: 2.3 (Triangulation of the Homotopy Category) _____

6) 30.5.: 2.4.1 (Localization of Cat's.), 2.4.2 (Derived Categories) _____

7) 6.6.: 2.4.3 (Derived Functors) _____

8) 13.6.: 3.1 , 3.2 (Direct/inverse image with proper support) _____

[20.6. entfällt.]

9) 27.6.: 3.3, 3.4, 3.5 (Verdier Duality) _____

10) 4.7.: 4.1.1, 4.1.2 (Stratifications), 4.1.3 (PL Int. Homol.) _____

11) 11.7.: 4.1.4 (Passage to Sheaf-theoretic IH), 4.2 (Deligne's Sheaf) _____

12) 18.7.: 4.4 (Duality thm. on singular spaces), 6.1 (Signature) _____

13) 25.7.: 6.4 (Witt spaces), 6.5 (Bordism), 6.6 (Appl. to Novikov add.) _____