



Seminar SS 2025 Homotopy Theory

The topic of this seminar is the foundations of homotopy theory. We will work along chapter 4 of Allen Hatcher's book on Algebraic Topology (Cambridge University Press, 2001). It is not necessary to have background on homology and cohomology theory as given, e.g., in chapters 2 und 3 of Hatcher's book or in my courses Algebraic Topology 2 – 3. However, the knowledge of set theoretic topology as well as basic knowledge on the fundamental group and covering theory, see e.g. Hatcher's chapter 1 or my course on Algebraic Topology 1, is required.

If you are interested, please send an e-mail to

frank.loose@uni-tuebingen.de.

If you prefer certain talks please let us know. The schedule will be along the subsections in Hatcher's chapter 4. A first preliminary discussion, preferably with the assignment of talks, will be held on

**Tuesday, February 4th, 2 pm, in
C4 A 03.**

Frank Loose, David Seez