UH
Universität Hamburg
DER FORSCHUNG I DER LEHRE I DER BILDUNG

CHAMPP
CENTER IN HAMBURG FOR
ASTRO-, MATHEMATICAL AND
PARTICLE PHYSICS

LECTURE COURSE IN THE QUANTUM UNIVERSE RESEARCH SCHOOL

Summer Term 2022

Algebraic Topology

Tobias Dyckerhoff

Course Description:

This course will be an introduction to algebraic topology covering the topics

- Simplicial, singular and cellular homology
- Cohomology and the cup product
- Oriented manifolds and Poincaré duality
- ...

Prerequisites:

Introductory course on topology

Literature:

Lecture notes and a list of recommended books can be found on `https://www.math.uni-hamburg.de/home/dyckerhoff/algtop22/index.html`.

Date and Place:	Wed 14:15–15:45, Hörsaal H2, Geomatikum
	Fri 12:15–13:45, Hörsaal H1, Geomatikum, recorded videos
Problem Classes:	Fri, 14:15–15:45, SemRm 1240, Geomatikum
Starting on:	6 April 2022