MATH-684 Spectral sequences

Hess Bellwald Kathryn, Kjaer Jens Jakob

Cursus	Sem.	Туре	Longuago of	English
Mathematics		Opt.	teaching	English
			Credits	2
			Session	
			Exam	Oral
			Workload	60h
			Hours	33
			Courses	21
			TP	12
			Number of	
			positions	

Frequency

Only this year

Remark

Spring semester: Thursdays from March 4th to May 20th, 2021

Summary

The goal of the course is to learn how to construct and calculate with spectral sequences. We will cover the construction and introductory computations of some common and famous spectral sequences.

Content

The goal of the course is to learn how to construct and calculate with spectral sequences. We will cover the construction and introductory computations of some common and famous spectral sequences.

Content: Construction of Spectral Sequences Bockstein Spectral Sequence Atiyah-Hirzebruch Spectral Sequence EHP Spectral Sequence Leray-Serre Spectral Sequence

Keywords

Algebraic Topology

Learning Prerequisites

Required courses

A background knowledge of algebraic topology and homological algebra are assumed

Resources

Bibliography

Extra chapter on spectral sequences - Hatcher Conditionally convergent spectral sequences - Boardman Spectral sequences: friend or foe? - Vakil

