Schedule of the seminar on characteristic classes 2013.3—2013.6

(Tentative)

Textbooks   *Characteristic Classes*, by J. Milnor and J. Stasheff
Time   Friday afternoons, 13:30—16:30
Venue   玉泉数学中心 306

	Date	**Contents**	**Speakers**
1	March 15	Chapters 1—3 Smooth Manifolds, Vector Bundles, Constructing New Bundles Out of Old	谢颖
2	March 22	Chapter 4 Stiefel-Whitney Classes	周杨
3	March 29	Chapters 5—6 Grassmann Manifolds and Universal Bundles, A Cell Structure for Grassmann Manifolds	罗曦杨
4	April 5	Chapters 7—8 The Cohomology Ring of Grassmann Manifolds, Existence of Stiefel-Whitney Classes	谢颖
5	April 12	Chapters 9—10 Oriented Bundles and the Euler Class, The Thom Isomorphism Theorem	
6	April 19	Chapter 11 Computations in a Smooth Manifold	
7	May 3	Chapter 12 Obstructions	
8	May 10	Exercises of the first half	
9	May 17	Chapters 13—14 Complex Vector Bundles and Complex Manifolds, Chern Classes	
10	May 24	Chapters 15—16 Pontrjagin Classes, Chern Numbers and Pontrjagin Numbers	
11	May 31	Chapters 17—18 The Oriented Cobordism Ring, Thom Spaces and Transversality	
12	June 7	Chapter 19 Multiplicative Sequences and the Signature Theorem	
13	June 14	Chapter 20 Combinatorial Pontrjagin Classes	
14	June 21	Exercises of the second half	