

Schedule of the seminar on differential forms, 2013.3—6

(Tentative)

Textbook *Differential Forms in Algebraic Topology*, by R. Bott and L.W. Tu
Time Sunday mornings, 9:00—12:00
Venue 紫金港 东 6-416
Coordinator 周 杨 (Mobile: 15068151550 / 514379)

	Date	Contents	Speakers
1	March 17	Section 1 The de Rham complex on \mathbb{R}^n Section 2 The Mayer-Vietoris sequence Section 3 Orientation and integration Section 4 Poincare Lemma Section 5 The Mayer-Vietoris argument	吕人杰
2	March 24	Section 6 The Thom isomorphism, first part	罗曦杨
3	March 31	Section 6 The Thom isomorphism, second part	叶荣庆
4	April 7	Section 7 The nonorientable case	吕人杰
5	April 14	Section 8 The generalized Mayer-Vietoris principle Section 9 More examples and applications of the Mayer-Vietoris principle	
6	April 21	Section 10 Presheaves and Cech cohomology Section 11 Sphere bundles, first part	
7	April 28	Section 11 Sphere bundles, second part	
8	May 5	Section 12 The Thom isomorphism and Poincare duality revisited	
9	May 12	Section 13 Monodromy	
10	May 19	Section 14 The spectral sequence of a filtered complex, first part	
11	May 26	Section 14 The spectral sequence of a filtered complex, second part	
12	June 2	Section 15 Cohomology with integer coefficients	
13	June 9	Section 20 Chern classes of a complex vector bundle	
14	June 16	Section 21 The splitting principle and flag manifolds	
15	June 21	Section 22 Pontrjagin classes Section 23 The search for the universal bundle	