

Schedule of the seminar on Galois theory 2013.3—2013.6

Textbooks [A] *Algebra*, 2nd edition, by Michael Artin
[M] *Field and Galois Theory*, by Patrick Morandi

Time Saturday evenings, 18:00—21:00

Venue 紫金港 东 6-416

Coordinator 王 俊 (Mobile:18768117705 / 527758)

	Date	Contents	Speakers
1	March 16	[A] Fields Sections 15.1—15.4	
2	March 23	[A] Fields Sections 15.5—15.6, 15.9	
3	March 30	[A] Galois Theory Sections 16.1—16.4	
4	April 6	[A] Galois Theory Sections 15.8, 16.5—16.7	
5	April 13	[A] Galois Theory Sections 16.8—16.10	
6	April 20	[M] 1. Field Extensions, 2. Automorphisms, 3. Normal Extensions	
7	May 4	[M] 4. Separable and Inseparable Extensions 5. The Fundamental Theorem of Galois Theory	
8	May 11	[M] 6. Finite Fields, 7. Cyclotomic Extensions	
9	May 18	[M] 8. Norms and Traces, 9. Cyclic Extensions	
10	May 25	[M] 10. Hilbert Theorem 90 and Group Cohomology 11. Kummer Extensions	
11	June 1	[M] 12. Discriminants, 13. Polynomials of Degrees 3 and 4	
12	June 8	[M] 14. The Transcendence of π and e , 15. Regular and Compass Constructions, 16. Solvability by Radicals	
13	June 15	[M] 17. Infinite Galois Extensions 18. Some Infinite Galois Extensions	
14	June 20	[M] 19. Transcendence Bases 20. Linear Disjointness	

*There will be two speakers in each session.

*About one-third of the exercises in [A] and one-half of the exercises in [M] should be worked out and discussed at the end of each session.