

Schedule of the seminar on algebraic geometry 2012.2—2012.6

Textbooks *Algebraic Geometry, A First Course*, by J. Harris

Time

Venue 玉泉数学中心

Coordinator 樊宏路 (Mobile: 13645718458)

	Date	Contents	Speakers
1	2012.2.26	Affine and Projective Varieties	
2	2012.3.4	Regular Functions and Maps	
3	2012.3.11	Cones, Projections and More about Products	
4	2012.3.18	Families and parameter spaces. Ideals of Varieties, Irreducible Decomposition, and the Nullstellensatz first, half	
5	2012.3.25	Ideals of Varieties, Irreducible Decomposition, and Nullstellensatz second half	
6	2012.4.8	Grassmannians and Related Varieties and previous exercises	
7	2012.4.15	Rational Functions and Rational maps	
8	2012.4.22	More examples	
9	2012.4.29	Determinantal Varieties	
10	2012.5.6	Algebraic Groups	
11	2012.5.13	Definitions of Dimension and Elementary Examples	
12	2012.5.20	More Dimension Computations and previous exercises	
13	2012.5.27	Hilbert Polynomial	
14	2012.6.3	Smoothness and Tangent Spaces	

Notes: You will not learn anything if exercises are dismissed. Actually exercises are encouraged to be discussed in every talk. And I hope we can progress faster than scheduled, because there are more interesting things after Lecture 14.