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~~Andreas Gathmann – Class Notes: Commutative Algebra MA3G6 Commutative Algebra Lecture notes 2 posts 1 ... Mathematics Institute Zeeman Building University of Warwick Coventry CV4 7AL Directions. Staff Intranet | Alumni site. Warwick Maths on Facebook Warwick Maths on Twitter. Page contact: David Wood Last revised: Sat 24 May 2014~~

~~Lecture notes – MA3G6 Commutative Algebra~~

~~A commutative ring with 1 is called a eld if  $1 \neq 0$  and for all  $0 \neq x \in A$  there exists an element  $x^{-1} \in A$  such that~~

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$xx^{-1} = x^{-1}x = 1$ . In other words, every non-zero element of  $A$  is a unit. Clearly, every field is an integral domain, but not conversely (e.g.  $\mathbb{Z}$ ). Note that if  $x$  is a unit, then  $(x) = A = (1)$ . Also note that if  $x$  is nilpotent, then  $1 - x$  is a unit.

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NOTES 3 these problems is provided by Gröbner bases, however you will have to wait until Section 8 to see how. Basic Definitions. Definition 3.1. A field is a set  $k$  endowed with two binary operations:  $+$  and  $\cdot$  (multiplication and addition respectively). The triple  $(k, +, \cdot)$  satisfies:

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NOTES~~

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~~Commutative Algebra: Durham 1981 (London  
Mathematical ...~~

Commutative Algebra is the study of commutative rings, and their modules and ideals. This theory has

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developed over the last 150 years not just as an area of algebra considered for its own sake, but as a tool in the study of two enormously important branches of mathematics: algebraic geometry and algebraic number theory.

~~MA3G6 Commutative Algebra—University of Warwick~~

The map  $\text{Spec}(B) \rightarrow \text{Spec}(A)$  corresponds to the projection to the  $(x, y)$ -plane of the surface  $F: xz = y^2$  in the  $(x, y, z)$ -space. Note  $F$  contains the whole  $z$ -axis and hence does not look flat over the  $(x, y)$ -plane.

EXAMPLE 3. Let  $A = k[x, y]$  be as above and  $B = k[x, y, z]$  with  $z = f(x, y) \in A$ .

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Commutative algebra is the branch of algebra that studies commutative rings, their ideals, and modules over such rings. Both algebraic geometry and algebraic number theory build on commutative algebra.

Prominent examples of commutative rings include

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polynomial rings; rings of algebraic integers, including the ordinary integers  $\mathbb{Z}$ ; and p-adic integers. Commutative algebra is the main technical tool in the local study of schemes. The study of rings that are not necessar

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De nition 2.2. Suppose we have a commutative subring  $A \subseteq R$  (with identity). An element  $r \in R$  is called integral over  $A$  if  $r$  satisfies a monic polynomial with coefficients in  $A$ . Proposition 2.3 Given  $A \subseteq R$  a commutative subring, the set of integral elements is a subring. Lemma 2.4 Let  $A$  be a ring, and  $M$  a finitely-generated  $A$ -module. Let  $\phi : M \rightarrow M$  be an  $A$ -linear map.

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Further, every ring is commutative (that is,  $xy = yx$  in it), with an occasional exception, which is always marked (normally, it ' s a ring of matrices). As usual, the additive identity is denoted by 0. Note that, for any  $x$  in  $R$ ,  $x \cdot 0 = 0$ ; indeed,  $x \cdot 0 = x(0+0) = x \cdot 0 + x \cdot 0$ , and  $x \cdot 0$  can be canceled by adding  $-(x \cdot 0)$ . We allow  $1 = 0$ .

## ~~Commutative Algebra—MIT~~

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