

Commutative Algebra

Let A denote an \mathbb{R} -algebra, so that A is a vector space over \mathbb{R} and

$$A \times A \rightarrow A \tag{1}$$

$$(x, y) \mapsto x \cdot y. \tag{2}$$

Now define

$$Z \equiv \{x \in A : x \cdot y = 0 \text{ for some } y \in A \neq 0\}, \tag{3}$$

where $0 \in Z$. An **Associative** \mathbb{R} -algebra is commutative if $x \cdot y = y \cdot x$ for all $x, y \in A$.

Similarly, a **ring** is commutative if the **multiplication** operation is commutative, and a **Lie algebra** is commutative if the **commutator** $[A, B]$ is 0 for every A and B in the Lie algebra.

The term "commutative algebra" also refers to the branch of **abstract algebra** that studies **commutative rings**. Commutative algebra is important in **algebraic geometry**.

Commutative Algebra

Jianjun Gao



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