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basic definitions in this lecture. If you know how to associate Lie algebra to a Lie group, then all of this should be quite transparent.

### 1.1.1 Algebras and multiplications

Recall that an algebra over a field  $K$  of characteristic  $p$  is a vector space  $A$

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with a  $K$ -bilinear multiplication operation  $\mu : A \times A \rightarrow A$ , which we ...

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example is the  $n$ -dimensional vector space of all complex matrices, with Lie product defined as the commutator matrix.

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