bialgebra

Canonical name	Bialgebra
Date of creation	2013-03-22 13:06:05
Last modified on	2013-03-22 13:06:05
Owner	mhale (572)
Last modified by	mhale (572)
Numerical id	6
Author	mhale (572)
Entry type	Definition
Classification	msc 16W30
Related topic	QuantumDouble

A **bialgebra** is a vector space that is both a unital algebra and a coalgebra, such that the comultiplication and counit are unital algebra homomorphisms.

A bialgebra homomorphism is a linear map that is both an algebra and a coalgebra homomorphism.