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Dimodule Algebras, Long Bialgebras and Quantum Yang-Baxter Modules over Long Bialgebras

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摘要 This paper gives a sufficient and necessary condition for a bialgebra to be a Long bialgebra, and proves a braided product to be a Long bialgebra under some conditions. It also gives a direct sum decomposition of quantum Yang--Baxter modules over Long bialgebras.

关键词 [long bialgebra](#) [dimodule algebra](#) [braided product](#) [quantum Yang--Baxter module](#)

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Dimodule Algebras, Long Bialgebras and Quantum Yang-Baxter Modules over Long Bialgebras

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Abstract This paper gives a sufficient and necessary condition for a bialgebra to be a Long bialgebra, and proves a braided product to be a Long bialgebra under some conditions. It also gives a direct sum decomposition of quantum Yang--Baxter modules over Long bialgebras.

Key words [long bialgebra](#) [dimodule algebra](#) [braided product](#) [quantum Yang--Baxter module](#)

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