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Compactons of binary bose gases in optical lattices with inter-species scattering length management (Conference Paper)

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Abstract

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Binary mixtures of quasi one-dimensional Bose-Einstein condensates (BEC) in deep optical lattices and in the presence of periodic rapid modulations of the interspecies scattering length are investigated. In the strong management limit the existence of binary compactons of stationary and quasi-stationary type is demonstrated. The existence of a threshold on the inter-species scattering length in the case of quasi-stationary compactons is shown. © OSA 2016.

Indexed keywords

Engineering controlled terms: Binary mixtures, Bins, Bose-Einstein condensation, Crystal lattices, Optical fibers, Optical materials, Statistical mechanics

Compendex keywords: Bose gas, Compactons, Quasi-one dimensional, Quasi-stationary, Scattering length

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