



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
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Spin Mixing Dynamics in an Atomic spin-1 Bose condensate

by

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ALL INTERESTED ARE WELCOME

Abstract

Multi-component Bose-Einstein condensate (BEC) is one of the hottest topics nowadays in atomic/molecular and optical physics. I discuss the ground state of a spin-1 BEC (3 components) in magnetic fields, as well as the dynamics under single spatial mode approximation. Then I focus on the analysis of the dynamical stabilities and the spontaneous spin domain formation in a ferromagnetically interacting spin-1 BEC.

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