

On Symmetry Flows of Noncommutative Kadomtsev-Petviashvili Hierarchy

WANG Ning

Department of Physics, Ocean University of China, Qingdao 266003, China
(Received: 2005-1-17; Revised:)

Abstract: We discuss symmetry flows of noncommutative Kadomtsev-Petviashvili (NCKP) hierarchy. An operator-based formulation, alternative to the star-product approach of extended symmetry flows is presented. Noncommutative additional symmetry flows of the NCKP hierarchy are formulated. A rescaling symmetry flow which is associated with the rescaling of whole coordinates is introduced.

PACS: 02.40.Ky, 02.30.Ik

Key words: noncommutative Kadomtsev-Petviashvili hierarchy, extended symmetry flows, additional symmetry flows, rescaling symmetry flows

[\[Full text: PDF\]](#)

Close