



复旦大学数学科学学院 数学综合报告会

报告题目：Alice-Bob systems, Ps - Td - C principles and multi-soliton solutions

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摘要：To describe two-place physical problems, many possible models named Alice-Bob (AB) systems are proposed. To find and to solve these systems, the Parity (P), time reversal (T), charge conjugation (C), shifted-parity (Ps , parity with a shift), delayed time reversal (Td time reversal with a delay) and their possible combinations such as PT , PC etc. can be successively used. Especially, some special types of PTC group invariant multi-soliton solutions for the KdV - KP - $Toda$ type, $mKdV$ - sG type, NLS type and discrete $H1$ type AB systems are explicitly constructed.

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