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摘要 An isospectral problem with four potential is discussed. The corresponding hierarchy of Lax integrable evolution equations is derived. For the hierarchy, it is shown that there exist other new reductions except those presented by Tu, Meng and Ma. For each reduction case the relevant Hamiltonian structure is established by means of trace identity.

关键词 <u>lax integrable system</u> <u>reduction</u> <u>hamiltonian structure</u> 分类号

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Key words <u>lax integrable system</u> <u>reduction</u> <u>hamiltonian structure</u>

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