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cases	**authors**	• Emil Nissimov • Svetlana Pacheva	**authors**	• Nissimov, Emil • Pacheva, Svetlana	DUPLICATES	1053
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	id	id7316901021283867674	**id**	id-3282022668004302067		
	abstract	This is mainly a brief review of some key achievements in a 'hot" area of theoretical and mathematical physics. The principal aim is to outline the basic structures underlying integrable quantum field theory models with infinite-dimensional symmetry groups which display a radically new type of quantum group symmetries. Certain particular aspects are elaborated upon with some detail: integrable systems of Kadomtsev-Petviashvili type and their reductions appearing in matrix models of strings; Hamiltonian approach to Lie-Poisson symmetries; quantum field theory approach to two-dimensional relativistic integrable models with dynamically broken conformal invariance. All field-theoretic models in question are of primary relevance to diverse branches of physics ranging from nonlinear hydrodynamics to string theory of fundamental particle interactions at ultra-high energies.	**abstract**	This is mainly a brief review of some key achievements in a `hot" area of theoretical and mathematical physics. The principal aim is to outline the basic structures underlying {\em integrable} quantum field theory models with {\em infinite-dimensional} symmetry groups which display a radically new type of {\em quantum group} symmetries. Certain particular aspects are elaborated upon with some detail: integrable systems of Kadomtsev-Petviashvili type and their reductions appearing in matrix models of strings; Hamiltonian approach to Lie-Poisson symmetries; quantum field theory approach to two-dimensional relativistic integrable models with dynamically broken conformal invariance. All field-theoretic models in question are of primary relevance to diverse branches of physics ranging from nonlinear hydrodynamics to string theory of fundamental particle interactions at ultra-high energies.Comment: (to appear in "Mathematical Physics Towards the XXIst Century", Proc. Int. Conf. in Beer Sheva, March 1993), LaTeX, 25 pages, BGU-93/22/October-PH (added discussion of generalized Miura transformation for multi-boson KP hierarchies		
	versions		**versions**			