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cases	authors	Kanehisa Takasaki				
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	abstract	Present state of the study of nonlinear ``integrable" systems related to the group of area-preserving	abstract real abstract abstract	diffeomorphisms on various surfaces is overviewed. Roles of area-preserving diffeomorphisms in 4-d self-dual	s, is	
		diffeomorphisms on various surfaces is overviewed. Roles of area-preserving diffeomorphisms in 4-d self-dual gravity are reviewed. Recent progress in new members of this family, the SDiff(2) KP and Toda		gravity are reviewed. Recent progress in new members of this family, the SDiff(2) KP and Toda hierarchies, is reported. The group of area-preserving diffeomorphisms on a cylinder plays a key role just as the infinite		
		hierarchies, is reported. The group of area-preserving diffeomorphisms on a cylinder plays a key role just		matrix group GL(\$\infty\$) does in the ordinary KP and Toda lattice hierarchies. The notion of tau functions is		
		as the infinite matrix group GL(\$\infty\$) does in the ordinary KP and Toda lattice hierarchies. The notion of tau functions is also shown to persist in these hierarchies, and gives rise to a central extension of the		also shown to persist in these hierarchies, and gives rise to a central extension of the corresponding Lie		
				algebra.Comment: 16 page		
		corresponding Lie algebra.	versions		<u>                                     </u>	
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