

2023年5月27日 星期六

ENGLISH

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勤数
笃系
求真
地

中国科学院数学与系统科学研究院

Academy of Mathematics and Systems Science

Chinese Academy of Sciences

$f(x)+bf(y)$

$\int^* \varpi = \varpi$

$\varpi = \sum dp_i \wedge dq^i$

$I - Z \bar{Z}' > 0$

$W = SqV$

$Zero(PS) = \bigcup Zero(CS_i/J_i)$

$(1, 2)$

$(2, 3)$

$+by)=\varepsilon$

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Academy of Mathematics and Systems Science, CAS Colloquia & Seminars Speaker: Xianguo Geng, Zhengzhou University Inviter: 常向科 Title: Application of algebraic curve theory to integrable systems Language: Chinese Time & Venue: 2022.12.02 09:00-9:50 腾讯会议：125-783-025 Abstract: We first consider the basic theory of algebraic curves, including the compact Riemann surface, Riemann-Hurwitz formula, Baker-Akhiezer function, three kinds of Abelian differentials, the construction of Riemann theta function and so on. Then, we consider the application of algebraic curve theory in integrable systems. We study the properties of algebraic curves induced by integrable systems, and calculate the factors of Baker-Akhiezer functions and meromorphic functions. An illustrative example of our approach is given, from which quasi-periodic solution of the corresponding integrable nonlinear evolution equations are obtained.	
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