

## 無限可積分系

9月24日(火)

## 9:30~12:00

- 1 神吉雅崇 (東大数理) #  $p$  進数体を用いた有限体上の可積分系の構成 ..... 15  
 時弘哲治 (東大数理)  
 間田潤 (日大生産工)  
 Masataka Kanki (Univ. of Tokyo) # Constructing the integrable systems over finite fields using the field of  
 Tetsuji Tokihiro (Univ. of Tokyo)  $p$ -adic numbers  
 Jun Mada (Nihon Univ.)
- 2 上岡修平 (京大情報) # 戸田分子の初期値問題の解の組合せ論的な表示 ..... 15  
 Shuhei Kamioka (Kyoto Univ.) # A combinatorial expression of the solution to an initial value problem  
 of the Toda molecule
- 3 野邊厚 (千葉大教育) # 周期箱玉系の幾何学的実現 ..... 15  
 Atsushi Nobe (Chiba Univ.) # A geometric realization of the periodic box-ball system
- 4 沖吉真実 (広島大理) # 箱玉系の母関数 ..... 15  
 Mami Okiyoshi (Hiroshima Univ.) # Generating functions of box and ball system
- 5 竹村剛一 (中大理工) # Ultradiscrete Painlevé VI with parity variables ..... 15  
 筒井栄光  
 Kouichi Takemura (Chuo Univ.) # Ultradiscrete Painlevé VI with parity variables  
 Terumitsu Tsutsui
- 6 鈴木貴雄 (近畿大理工) # シュレジンガー系  $\mathcal{H}_{3,2}$  のリジッド方程式による特殊解 ..... 15  
 Takao Suzuki (Kinki Univ.) # A particular solution of the Schlesinger system  $\mathcal{H}_{3,2}$  in terms of a rigid  
 system
- 7 大山陽介 (阪大情報) # A connection problem for linear  $q$ -difference equations related to the  
 $q$ -Painlevé equation ..... 15  
 Yousuke Ohyama (Osaka Univ.) # A connection problem for linear  $q$ -difference equations related to the  
 $q$ -Painlevé equation
- 8 金子和雄 \* Symmetric solutions to the degenerate four dimensional Painlevé type  
 (四日市大関孝和数学研) equations  $NY^{A_4}$ ,  $IV^{Mat}$  and  $II^{Mat}$  ..... 20  
 Kazuo Kaneko (Yokkaichi Univ.) \* Symmetric solutions to the degenerate four dimensional Painlevé type  
 equations  $NY^{A_4}$ ,  $IV^{Mat}$  and  $II^{Mat}$

## 14:15~16:20

- 9 長谷川浩司 (東北大理工) # 量子差分ガルニエ系の Lax 形式 ..... 15  
 仙波洋介 (朝倉書店)  
 Koji Hasegawa (Tohoku Univ.) # Lax formalism for quantum discrete Garnier system  
 Yousuke Semba (Asakura Publ.)
- 10 桑野泰宏 # 8 頂点模型のスピン 1 類似の自発分極について ..... 20  
 (鈴鹿医療科学大医工)  
 Yas-Hiro Quano # Spontaneous polarization of spin-1 analogue of the eight-vertex model  
 (Suzuka Univ. of Med. Sci.)

- 11 中西知樹 (名大多元数理)<sup>#</sup> Diagrammatic description of  $c$ -vectors and  $d$ -vectors of cluster algebras  
S. Stella (Northeastern Univ.) of finite type ..... 15  
Tomoki Nakanishi (Nagoya Univ.)<sup>#</sup> Diagrammatic description of  $c$ -vectors and  $d$ -vectors of cluster algebras  
Salvatore Stella (Northeastern Univ.) of finite type
- 12 中西知樹 (名大多元数理)<sup>#</sup> Wonder of sine-Gordon  $Y$ -systems ..... 15  
S. Stella (Northeastern Univ.)  
Tomoki Nakanishi (Nagoya Univ.)<sup>#</sup> Wonder of sine-Gordon  $Y$ -systems  
Salvatore Stella (Northeastern Univ.)
- 13 尾角正人 (阪市大理)<sup>#</sup>  $U_q^+$  の PBW 基底と量子座標環 ..... 20  
国場敦夫 (東大総合文化)  
山田泰彦 (神戸大理)  
Masato Okado (Osaka City Univ.)<sup>#</sup> PBW bases of  $U_q^+$  and quantized algebra of functions  
Atsuo Kuniba (Univ. of Tokyo)  
Yasuhiko Yamada (Kobe Univ.)
- 14 石井基裕 (筑波大数理物質)<sup>#</sup> 量子アフィン展開環上のレベル・ゼロ extremal ウェイト加群の結晶基底  
内藤聡 (東工大理工) のパス模型 ..... 15  
佐垣大輔 (筑波大数理物質)  
Motohiro Ishii (Univ. of Tsukuba)<sup>#</sup> Path model for crystal bases of level-zero extremal weight modules over  
Satoshi Naito (Tokyo Tech) quantum affine algebras  
Daisuke Sagaki (Univ. of Tsukuba)

**16:30~17:30 特別講演**

- 直井克之 (東大IPMU)<sup>#</sup> An approach to the  $X = M$  conjecture using modules over a current algebra  
Katsuyuki Naoi (Univ. of Tokyo)<sup>#</sup> An approach to the  $X = M$  conjecture using modules over a current algebra

9月25日(水)

**9:30~12:00**

- 15 森田健 (阪大情報)<sup>#</sup> A connection formula of a divergent bilateral basic hypergeometric function ..... 15  
Takeshi Morita (Osaka Univ.)<sup>#</sup> A connection formula of a divergent bilateral basic hypergeometric function
- 16 伊藤雅彦 (東京電機大未来)<sup>#</sup>  $q$ -Dixon-Anderson 積分 —多変数 Ramanujan  ${}_1\psi_1$  和公式— ..... 20  
Masahiko Ito (Tokyo Denki Univ.)<sup>#</sup> The  $q$ -Dixon-Anderson integral —a multi-dimensional Ramanujan  ${}_1\psi_1$  sum—
- 17 伊藤雅彦 (東京電機大未来)<sup>#</sup> 両側級数に拡張された  $q$ -Selberg 積分の積表示 — $q$ -差分方程式, シフト付き基本対称式, 接続関係式— ..... 20  
Masahiko Ito (Tokyo Denki Univ.)<sup>#</sup> A bilateral extension of the  $q$ -Selberg integral and its product expression — $q$ -difference equation, shifted symmetric polynomials, connection formula—
- 18 成瀬弘 (岡山大教育)<sup>#</sup> Dual Grothendieck polynomials and finite sum Cauchy formula ..... 15  
A. Lascoux (Univ. de Marne-la-Vallée)  
Hiroshi Naruse (Okayama Univ.)<sup>#</sup> Dual Grothendieck polynomials and finite sum Cauchy formula  
Alain Lascoux (Univ. de Marne-la-Vallée)

## 3 無限可積分系

- 19 成瀬 弘 (岡山大教育)<sup>#</sup> Factorial Schur functions and vexillary permutations of types  $B, C$  and  $D$  ..... 15  
 Hiroshi Naruse (Okayama Univ.)<sup>#</sup> Factorial Schur functions and vexillary permutations of types  $B, C$  and  $D$
- 20 水川 裕司 (防衛大)<sup>#</sup>  $A_2^{(2)}$  の基本表現から得られるシューア関数の恒等式 ..... 15  
 中島 達洋 (明海大経済)  
 山田 裕史 (岡山大自然)  
 Hiroshi Mizukawa <sup>#</sup> Schur function identities and the basic representation of  $A_2^{(2)}$   
 (Nat. Defense Acad. of Japan)  
 Tatsuhiro Nakajima (Meikai Univ.)  
 Hiro-Fumi Yamada (Okayama Univ.)
- 21 齋藤 洋介 (東北大理)<sup>#</sup> 楕円 Ding–Iohara 代数と楕円 Feigin–Odesskii 代数から現れる可換な作用素の族 ..... 20  
 Yosuke Saito (Tohoku Univ.)<sup>#</sup> Commutative families arising from the elliptic Ding–Iohara algebra and the elliptic Feigin–Odesskii algebra

**13:00~14:00 特別講演**

- 土屋 昭博 (東大IPMU)\* Log 共形場理論と拡大  $W$ -代数の表現論  
 Akihiro Tsuchiya (Univ. of Tokyo)\* Logarithmic conformal field theory and the representation theory of extended  $W$ -algebras