

[KEIO SYMPO MATH]  
KEIO International Symposium on  
Mathematics and Mathematical Education

Date: December 2 (Fri), 3 (Sat), 2005

Place: Yagami campus of Keio Univ. 慶応義塾大学・理工学部・矢上キャンパス (3-14-1 Hiyoshi, Kohoku, Yokohama (cf. WEB sites at the bottom))

PROGRAM

**Dec. 2 (Fri)**

**10:00-10:05** The opening ceremony 開会式

Chairperson: Сендов (Bulgaria)

**10:05-10:30** Atsusi Tani 谷 温之 (Keio Univ.)

Mathematical model equations in nonlinear acoustics 非線形音響学の数学モデル方程式

**10:35-11:00** Yoshihiro Mochimaru 持丸 義弘 (Tokyo Tech 東工大)

Numbers computed 計算機で探る

**11:00-11:15** *Coffee Break*

Chairperson: Mochimaru (Tokyo Tech)

**11:15-11:40** Nagi Matsuzaki 松崎 奈岐 (Niigata Intl Univ., Tokyo Gakugei Univ.)

I was a mathematician before a flutist 数学者から音楽家へ

**11:45-12:10** Isamu Tamada 玉田 勇 (Photographer)

Arithmetic was my favorite subject, but now? 算術が得意でしたが...

**12:10-13:00** *Lunch Time*

Chairperson: Tani (Keio Univ.)

**13:00-13:40** Благобест Христов Сендов ブラゴヴェスト・フリストフ・センドフ (The Bulgarian Ambassador to Japan, Bulgarian Academy of Sciences)

Some thoughts on mathematics and mathematical education 数学・数学教育についての思考について

**13:45-14:15** Ryosuke Nagaoka 長岡 亮介 (Univ. of the Air 放送大)

A big challenge of education in a small country—Bulgarian wisdom ブルガリアの(数学)教育—叡智の努力

**14:20-14:45** Yohtaro Matsuo 松尾 陽太郎 (Tokyo Tech)

The stand of mathematical education for the department of material science and engineering 材料工学系学科における数学教育の位置づけ

**14:45-15:00** *Coffee Break*

Chairperson: Nakagawa (Tohoku Gakuin Univ.)

**15:00-15:25** Jong Son Shin-Toshiki Naito 申 正善・内藤 敏機 (Univ. of Electro-Comm. 電通大)

A new representation of solutions of linear difference equations and its application to ordinary differential equations 線形差分方程式の解の新表現及びその常微分方程式への応用

**15:30-15:55** Pham Huu Anh Ngoc ファム・フー・アン・ゴク (Univ. of Electro-Comm., Hue Univ.(Vietnamese))

Stability radius of positive linear functional differential equations 正線形関数微分方程式の安定半径

**16:00-16:35** Kiyoshi Matsubara 松原 聖 (AdvanceSoft Co.)

Computational science and engineering from a viewpoint of a mathematician 数学者からみた計算科学

*Social Program*

**16:50-18:20** *Mini Music Concert* (at the restaurant of Keio Univ.)

1 Guitar(Jazz): Koichi Takano 高野幸一

5 Flute: Nagi Matsuzaki 松崎奈岐

2 Dance(1/2): Yohkoh Kezuka, et.al. 毛塚陽康 他

6 Piano(Classic): Mitsuhiro Ebihara 海老原光宏

3 Piano(Jazz): Takanori Murase 村瀬貴則

7 Koto: Hiromi Hosi, et.al. 星博美 他

4 Dance(2/2): Yohkoh Kezuka, et.al. 毛塚陽康 他

8 Tsugaru-Shamisen: Tsukuba Univ. 筑波大

**18:30-20:00** *The stand-up dinner party* (at the restaurant of Keio Univ.) (¥ 3,000)

## Dec. 3 (Sat)

Chairperson: Ito (Kanazawa Univ.)

**10:00-10:40** Б. Х. Сендов **センドフ** (Bulgaria)

Two hard problems for complex polynomials 複素多項式についての2つの難問

**10:45-11:10** Saburo Saitoh **斎藤 三郎** (Gunma Univ.)

Applications of the theory of reproducing kernels to the Tikhonov regularization ティホノフ正規化への再生核理論の応用

**11:10-11:25** *Coffee Break*

Chairperson: Сендов (Bulgaria)

**11:25-11:50** Miwako Asai **浅井 美和子** (Tokyo Tech)

TBA

**11:55-12:20** Бібко Олександр Сергійович **ビブコ・オレクサンドル・セルギオヴィッチ** (通称 **サーシャ**) (Tsukuba Univ.(Ukrainian))

Characteristics of education in Ukraina ウクライナにおける教育の特徴

**12:20-13:00** *Lunch Time*

Chairperson: Matsuzaki (Niigata Intl Univ., Tokyo Gakugei Univ.)

**13:00-13:30** Димитър С. Ялпазов **ディミタル・ヤルナゾフ** (通称 **ミトコ**) (Kyoto Univ.(Bulgarian))

Can the economic power raise an education standard? 経済力は教育水準を上げられるか?

**13:30-13:55** Akira Yanagiya **柳谷 晃** (Waseda High School)

Mathematical models and integral equations 数理モデルと積分方程式

**13:55-14:20** Kazuhiko Matsumoto **松本 和彦** (Shonan High School 湘南高校)

“LiveMath Maker” A brief introduction: How I enjoy it 数学ソフト “ライブマス メーカー” 私の楽しみ方

**14:20-14:35** *Coffee Break*

Chairperson: Saitoh (Gunma Univ.)

**14:35-15:00** Hidekazu Ito **伊藤 秀一** (Kanazawa Univ.)

Normal form theory and integrability of vector fields and maps 標準形理論とベクトル場, 写像の可積分性について

**15:00-15:25** Kiyokazu Nakagawa **中川 清和** (Tohoku Gakuin Univ.)

The impulsive control and the blow-up time of the solution to the semilinear parabolic equation 半線形放物型方程式の解の爆発時刻と衝撃条件

**15:25-15:50** Kunihiro Inuma **飯沼 邦彦** (MassMutual Life Insurance Co.)

Applied mathematics in finance — What is the “Actuary”? ファイナンスにおける数学 — “アクチュアリー” って何?

### *Social Program*

After the session, walking around the MinatoMiraiArea as far as the ChinaTown for Chinese food.

The restaurant *Banraiken* 萬来軒 (216 Yamashita-cho, Naka-ku, Yokohama 045-662-6402)(¥ ?,000)

For the way to the Yagami campus, please visit the following sites:

<http://www.st.keio.ac.jp/english/access/>

<http://www.st.keio.ac.jp/access/>

The organizer:

Minoru Nakano **中野 實**

Dept. of Mathematics, Keio Univ.

045-566-1666

045-566-1641 (Secretary)

045-566-1642 (Fax)