

(As of September 14, 2014)

Kyoto Conference on Numerical Analysis and Differential Equations (KCNADe) 2014

Sep. 16–20, 2014.

Raku-Yu Kaikan, Kyoto University.

In celebration of Professor Taketomo Mitsui's 70th birthday.

[Timetable]

Sep. 16 (Tue.)	Sep. 17 (Wed.)	Sep. 18 (Thu.)	Sep. 19 (Fri.)
	9:20–10:00 Kelly	9:20–10:00 Kouya	9:20–10:00 Forest
	10:00–10:40 Chen	10:00–10:40 Hu	10:00–10:40 Komori
	(10:40–11:00)	10:40–11:20 Feng	(10:40–11:00)
	11:00–12:00 Wanner	(lunch)	11:00–11:40 Itoh
	(lunch)	(lunch)	11:40–12:20 Ohno
13:50–14:00 (opening)	(lunch)	13:15 (social)taxi	(lunch)
14:00–15:00 Butcher	14:00–15:00 Hairer	13:40 (social)site	(lunch)
(15:00–15:20) (coffee)	(15:00–15:20) (coffee)	14:00–15:00 (social)	14:00–14:40 Ishikawa
15:20–16:00 Duran	15:20–16:00 Zanna		14:40–15:20 Kato
16:00–16:40 Miyatake	16:00–16:40 Owren		15:20–16:00 Furihata
(16:40–17:00)	(16:40–17:00)		(closing)
17:00–17:40 Celledoni	17:00–18:00 Mitsui		
17:40–18:20 Zhang	19:00–21:30 (dinner)		

★ Conference site will open from 13:00 on Sep. 16, and from 9:00 for Sep. 17–19.

★ Sep. 20 is dedicated to free discussions starting from 10:00.

★ For speakers: the presentation time includes the time for discussion and changing PCs. The projector supports VGA connection.

■ Sep. 16 (Tue.)

(13:50–14:00) (opening)

14:00–15:00 **J. Butcher**

Cohesive structure-preserving general linear methods

15:20–16:00 V. A. Dougalis, A. Duran and D. Mitsotakis

On the numerical solution of the Benjamin equation

16:00–16:40 Y. Miyatake

A parallel energy-preserving method for Hamiltonian systems

17:00–17:40 E. Celledoni

Structure preserving methods for port-Hamiltonian systems

17:40–18:20 C. Chen, J. Hong, L. Ji and L. Zhang

Stochastic multi-symplectic methods for stochastic Maxwell equations with additive noise

■ Sep. 17 (Wed.)

- 9:20–10:00 C. Kelly
Polynomial difference equations under stochastic perturbation
- 10:00–10:40 C. Chen and J. Hong
Mean-square convergence order of a stochastic symplectic semi-discrete scheme
- 11:00–12:00 **G. Wanner**
Nonstiff, stiff and geometric integration
- 14:00–15:00 **E. Hairer**
Long-time numerical energy preservation for oscillatory differential equations
- 15:20–16:00 A. Zanna
On some problems in quantum control
- 16:00–16:40 B. Owren
A new look at geometric integrators for nonautonomous linear systems
- 17:00–18:00 **T. Mitsui**
Study of numerical analysis in Japan – A private view –

■ Sep. 18 (Thu.)

- 9:20–10:00 T. Kouya
BIRK—Implementation of high-order implicit Runge-Kutta methods and their application to ill-conditioned problems
- 10:00–10:40 G.-D. Hu
A modified version of explicit Runge-Kutta methods for preserving multiple first integrals
- 10:40–11:20 B. Feng
Self-adaptive moving mesh methods for a class of nonlinear wave equations with hodograph transformation

■ Sep. 19 (Fri.)

- 9:20–10:00 E. Forest
Symplectic integration in accelerator physics
- 10:00–10:40 Y. Komori
High order explicit exponential Runge-Kutta methods for the weak approximation of solutions of stochastic differential equations
- 11:00–11:40 T. Itoh
Discrete Schwarzian derivative of ordinary difference equation
- 11:40–12:20 H. Ohno
On explicit Runge-Kutta methods
- 14:00–14:40 H. Ishikawa
Quantum mechanics and numerical analysis
- 14:40–15:20 H. Kato, H. Kato and T. Ishii
Weak-form discretization scheme for recursive transfer method
- 15:20–16:00 D. Furihata
A predictor corrector iteration method based on the discrete variational derivative method

★ The talk by Y. He has been canceled.