

International Workshop
**Numerical Analysis: Applications to
Biomedical Problems and Foundations**
<https://sites.google.com/view/180221ws-ut-komaba>

Date: Wednesday, February 21st, 2018

Venue: Room 123, Graduate School of Mathematical Sciences, The University of Tokyo
http://www.ms.u-tokyo.ac.jp/access_e/index_e.html

Program:

10:00 Opening

10:10-10:50 Alfio Quarteroni (Ecole Polytechnique Fédérale de Lausanne)
Numerical algorithms for coupled problems in heart modeling

11:00-11:40 Kenji Takizawa (Waseda University)
Space-time computational analysis of heart valve and aorta

11:45-12:25 Jun-ichi Okada (The University of Tokyo)
Multi-scale Multi-physics Heart Simulator, UT-Heart

14:00-14:40 Hiroshi Fujiwara (Kyoto University)
Numerical challenges to the radiative transport equation for
near-infrared light propagation in tissue

14:45-15:25 Hirofumi Notsu (Kanazawa University)
Numerical analysis and computation of viscoelastic models

15:35-16:15 Shinya Uchiumi (Waseda University)
A pressure-stabilized FEM using higher-order elements with
application to some channel flows

16:20-17:00 Takahito Kashiwabara (The University of Tokyo)
Finite element analysis for a generalized Robin boundary condition in a smooth domain

17:00 Closing

Organizers: Mathematical Science Group, AIMR, Tohoku University
Numerical Analysis Seminar, The University of Tokyo

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