November 18 (Thu.)
10:00-18:00 (Core Time 12:30-13:00, 17:30-18:00)

Main Convention Hall

PS1-Thu-1 Damage of Reinforced Concrete Buildings during the 1923 Great Kanto Earthquake Based on Dynamic Characteristics
Shoji Hayashi (Shimizu Corp.) • Nobuo Fukuwa • Junichi Miyakoshi

PS1-Thu-2 Discussion with the Vulnerability Function by Using the Seismic Damage Data Caused 2004 Chuetsu Earthquake.
Yasumasa Nakajima (Institute of Science and Technology, Kanto-Gakuin University) • Norio Abeki • Yuya Makino

PS1-Thu-3 Building Damage Distribution of the 2006 Central Java, Indonesia, Earthquake Detected from Satellite Optical Images
Hiroyuki Miura (Tokyo Institute of Technology) • Saburoh Midorikawa • Norman Kerle

PS1-Thu-4 Relationship of Criteria for Damage to Buildings in Chuetsu and Chuetsu-Oki Earthquake in Niigata
Yukiko Nakamura (Niigata University)

PS1-Thu-5 Damage Material and Ground Motion Level of the 1923 Kanto Earthquake - Activities of Damage Data Obtained from the Original Documents -
Takafumi Moroi (Kobori Research Complex) • Masayuki Takemura

PS1-Thu-6 Application of Logic-Tree Analysis to Uncertainties in Earthquake Magnitude Estimation for a Long Active Fault System
Kozo Oonishi (Okayama University) • Takashi Kumamoto

PS1-Thu-7 Validity of Evaluation Method for Fault Parameters Based on Survey of Inland Active Faults
Yutaka Mamada (Japan Nuclear Energy Safety Organization) • Shizuo Noda • Jyun’ichi Uchida • Toshiyuki Inai • Naoki Nishimura

PS1-Thu-8 Broadband Source Models for Recent Large Earthquakes - Characteristics of Slip and Stress Distributions -
Yoshiaki Shiba (CRIEPI) • Ryoichi Tokumitsu • Isao Nishimura

PS1-Thu-9 Effect of Asperity Estimation Errors on Strong Ground Motion Prediction
Takashi Hirai (Nagoya University) • Hirohito Takahashi • Nobuo Fukuwa • Takeshi Sagiya

PS1-Thu-10 An Earthquake Catalog of the ISEE, BRI for Recent Large Events in the World
Tatsuhiko Hara (ISEE, Building Research Institute) • Nobuo Hukuraka • Toshihiko Yokoi • Yushiro Fujii • Naoki Nishimura • Yuji Yagi

PS1-Thu-11 Source Rupture Process of the 2009 Suruga-Bay Earthquake Considering Complex Fault Geometry
Wataru Suzuki (National Research Institute for Earth Science and Disaster Prevention) • Shin Aoi • Haruko Sekiguchi

PS1-Thu-12 The Influence of Stress Drop of Seismic Sources on the Variance of Ground Motions
Masaharu Sugahara (Tokyo Electric Power Services Co., Ltd.) • Toshiichi Uetake

PS1-Thu-13 Anomalous Strong Ground Motion Features of the Largest Aftershock of the 2003 Tokachi-Oki Earthquake
Takahiro Maeda (University of California, Santa Barbara) • Nobuo Takai • Tsutomu Sasatani

PS1-Thu-14 Conserved Quantity of Elastic Waves in Multi-Layered Media
Hiroyuki Goto (Kyoto University) • Toshiyuki Hirai • Sumio Sawada

PS1-Thu-15 Determination of Subsurface Structure of Daisen South-West Area by Gravity and Microtremor Surveys
Tatsuya Noguchi (Tottori University) • Eiji Nakaya • Kensuke Iwahori • Yuta Sugihara • Takao Kagawa

PS1-Thu-16 Estimation of Three-Dimensional Boundary Shape of the Osaka Sedimentary Basin Based on Waveform Modeling
Asako Iwaki (Kyoto University) • Tomotaka Iwata

PS1-Thu-17 Comparisons with Simulations Used by PS Logging Data and Recorded Earthquake Motions, and Observed Microtremors at Two Sites In Mitsuke City, Niigata Prefecture.
Norio Abeki (Dept. of Architecture, College of Engineering, Kanto-Gakuin University) • Yuya Makino • Yasumasa Nakajima • Takayoshi Sasagawa
PS1-Thu-18 Estimation of Deep Subsurface Structure in the Kashiwazaki-Kariwa NPS by Using Joint Inversion of Phase Velocity and Receiver Function
Hiroaki Sato (CRIEPI) ・ Sadanori Higashi ・ Tomiichi Uetake ・ Ryoichi Tokumitsu ・ Kazuhiro Hikima

PS1-Thu-19 Development of a New Data Logger with Ultra Low Noise Using a Few A/D Converter
Hitoshi Morikawa (Tokyo Institute of Technology) ・ Masayuki Araki ・ Takamori Ito ・ Keitaro Matsumoto ・ Masachika Tanigawa

PS1-Thu-20 Evaluation of Site Effects at JMA, K-Net and KiK-net Observation Sites during the 2007 Noto Hanto Earthquake
Hayato Nishikawa (Maizuru National College of Technology) ・ Toshikazu Ikemoto ・ Yosikazu Morimoto ・ Masakatsu Miyajima

PS1-Thu-21 Study on Tsunami External Force and Pressure for Bridges
Hisashi Nakao (Ritsumeikan University) ・ Katsuyoshi Nozaka ・ Kazuyuki Izuno ・ Hiroshi Kobayashi

PS1-Thu-22 Analytical Study on Hydrodynamic Force of Tsunami Against Bridge Girders
Shimpei Murakami (Ritsumeikan University) ・ Hong Ha Bui ・ Hisashi Nakao ・ Kazuyuki Izuno

PS1-Thu-23 Comparison of Earthquake Observation Records on between Building and Ground Surface Using K-NET and SK-Net Data
Masanori Iiba (Building Research Institute) ・ Toshihide Kashima

PS1-Thu-24 Analysis of the Dynamic Characteristic of a Base-Isolated Building Affected by Partial Soil Improvement under Seismic Excitation
Fangyuan Zhou (Nagoya University) ・ Masafumi Mori ・ Nobuo Fukuwa

PS1-Thu-25 Damage Detection of Important Infrastructures Supported by Large Pile Groups in Weak Ground
Masafumi Mori (Nagoya University) ・ Fangyuan Zhou ・ Nobuo Fukuwa

PS1-Thu-26 E-Defense Shake Table Tests of a Pile-Foundation Structure in a Liquefiable Deposit
Kentaro Tabata (National Research Institute for Earth Science and Disaster Prevention) ・ Masayoshi Sato

PS1-Thu-27 A Study on Asymmetry of Seismic Response of Foundation-Soil-Structure System
Hiroki Emoto (Kobe City College of Technology) ・ Norihiko Yamashita ・ Rei Fujita

PS1-Thu-28 Toys of Isolation and Vibration Control for Science Education, Yurayura
Yasuaki Nohguchi (National Research Institute for Earth Science and Disaster Prevention)

PS1-Thu-29 Seismic Retrofit for a Pole on Railway Structures by Means of Damper and Its Verification Using Shaking Table
Akihiro Toyooka (Railway Technical Research Institute) ・ Kimitoshi Sakai ・ Yoshitaka Murono ・ Jyoji Ejiri ・ Satoshi Watanabe ・ Go Tanaka ・ Hideaki Yokokawa ・ Shuichi Nagata

PS1-Thu-30 Development of Seismic Isolation Unit for Semiconductor Equipment in Existence
Hiroshi Hibino (Taisei Corporation) ・ Maya Tanaka ・ Ichiro Nagashima ・ Youji Izumo ・ Shinji Ono ・ Takumi Kikuchi

PS1-Thu-31 Seismic Response Characteristics and Damping Effects of Base-Isolation Structural Systems with Hysteretic Damping and Viscous Damping
Atsuko Shirayama (General Building Research Corporation of Japan) ・ Shinji Ito ・ Tadamiichi Yamashita ・ Yutaka Inoue

PS1-Thu-32 Vibration Response Characteristics of Rocking Pillar Base Isolation System - The Effects of the Differences in Layout Conditions of Rocking Pillars and Superstructure Configurations on Seismic Performance of the Base Isolation System -
Naoki Funaki (Tohoku Institute of Technology) ・ Tomomi Fujita

PS1-Thu-33 Seismic Behavior of Isolated Buildings in Snow Seasons
Shiori Okazaki (Fukui University of Technology) ・ Yasuyuki Nagano ・ Hiroshi Maeda

PS1-Thu-34 Vibration Tests on Device of Reduction for Seismic Response Using Friction Bearing
Kiyohiro Ooki (Tokyo Metropolitan College of Industrial Technology) ・ Katsumi Kurita ・ Shigeru Aoki ・ Yuji Nakanishi ・ Kazutoshi Tominaga ・ Mitsuo Kanazawa

PS1-Thu-35 Research and Development of New Generation Energy Dissipation System Using Super-Elastic Flexible Member
Keiji Kitajima (Asunaro Aoki Construction Co., Ltd.) ・ Masaya Hada ・ Kenichi Takeuchi ・ Mitsukazu Nakanishi ・ Hiromi Adachi

PS1-Thu-36 Transition of Regional Earthquake-Resistant Reinforcement Condition in the 23 Wards of Tokyo
Osamu Murao (The University of Tsukuba) ・ Terukuni Onizuka

PS1-Thu-37 Development, Diffusion, and Exploitation of a Supporting System for Initial Response at Disaster Countermeasures Office
Makoto Endo (National Research Institute of Fire and Disaster) ・ Shinsaku Zama ・ Hideyuki Maeda
November 19 (Fri.)
10:00-16:00(Core Time 13:30-14:30)
Multi-Purpose Hall

PS2-Fri-1  Estimation of Site Amplification at Seismic Intensity Meter Stations in Fukuoka Prefecture
Mitsutaka Oshima (Shimizu Corporation) · Hiroshi Takenaka · Hiroshi Kawase

PS2-Fri-2  Waveform Inversion for 2-D Velocity Structures and Construction of 3-D Velocity Structure Using Its Results
Kazuhito Hibika (TEPCO) · Kazuki Koketsu

PS2-Fri-3  Joint Inversion Analysis of Microtremor H/V Spectrum and Dispersion Curve by the Use of Clustering Method
Hiroto Nakagawa (Chiba University) · Shoichi Nakai

PS2-Fri-4  A Study for Applying a Force-Balanced-Type Accelerometer to Gravity Measurement
Hiroko Matsuo (Tokyo Institute of Technology) · Hitoshi Morikawa · Shigeo Matsuda · Satoshi Tokue

PS2-Fri-5  Estimation of Velocity Structural Models of Fussaiwa City by Microtremor Observation
Shigeki Senna (NIED) · Shohei Naito · Xiao Hao · Nobusuke Hasegawa · Shinichi Kawai · Nobuyuki Morikawa · Nobuaki Kudo · Hiroyuki Fujisawa

PS2-Fri-6  Estimation of Deep Ground Structure around the Damaged Area of 2008 Iwate-Miyagi Nairiku Earthquake
Masachika Tanigawa (Tokyo Institute of Technology) · Hitoshi Morikawa · Hiroko Matsuo · Taiyo Kobayashi

PS2-Fri-7  An Estimation Method of Frequency Response Functions for Vertical Array Earthquake Records
Masatake Nakamura (Nihon University) · Jun-Ichi Suzumura

PS2-Fri-8  Analysis of Long Period Ground Motions Based on Continuous Seismic Observation in the Kashiwazaki-Kariwa Nuclear Power Station
Sadano Higashi (CRIEPI) · Hiroaki Sato · Tomiichi Uetake · Ryoichi Tokumitsu · Kazuhito Hibika

PS2-Fri-9  Inverse Analysis of Phase Velocity of Rayleigh Wave by Using Particle Swarm Optimization
Yusuke Ono (Kyoto University) · Atsushi Sato · Masaaki Kubo · Junji Kiyono

PS2-Fri-10  Relationship between Seismic Intensity, Damage Zone Due to the 1891 Nobi Earthquake and Predominant Period of H/V Spectral Ratio of Microtremors
Masayuki Kuwajima (Central Research Institute of Electric Power Industry) · Hiroaki Sato

PS2-Fri-11  Formulating Response Spectra of Long Period Ground Motions Due to Successively Occurred Subduction-Zone Earthquakes
Masanobu Tohdo (Toda Corporation)

PS2-Fri-12  Spectral Decay Characteristics in High Frequency Range of Ground Motions for Intra-Slab Earthquakes Occurred in West Japan
Masato Tsurugi (Geo-Research Institute) · Takao Kagawa · Kojiro Irikura

PS2-Fri-13  Effects of Spatial Variation of Slip Amplitude on Short-Period Ground Motions for the Crustal Events.
Kenichi Tsuda (Ohsaki Research Institute) · Hideaki Tsutsumi

PS2-Fri-14  Strong Ground Motions during the 1967 Teshikaga Earthquake(Mj6.5) and Their 3D Simulation
Sho Masuda (JSOL) · Tsutomu Sasatani · Yadab Dhakal · Takahiro Maeda

PS2-Fri-15  Structure of Northeastern Japan Arc and Strong Ground Motions: Strong Ground Motions from an Intraslab Earthquake and Interplate Earthquakes off Fukushima Prefecture
Yasumaro Kakehi (Kobe University)

PS2-Fri-16  Simulation of Strong Ground Motions during the 2007 Niigataken Chuetsu-Oki Earthquake in the Kashiwazaki-Kariwa Nuclear Power Plant with 3-D Structure of Deep and Shallow Soil Layers
Koichiro Saguchi (Nihon Emsco) · Yuri Suzuki · Kazuaki Masaki · Susumu Kurahashi · Kojiro Irikura

PS2-Fri-17  Evaluation of Long-Period Ground Motions Based on Site-Specific Amplification and Phase Characteristics
-Kinetic Motion Simulation for the Tokachi-Oki, Japan, Earthquake of 2003
Kiminobu Eto (Tokyo Soil Research) · Shunichi Fukumoto · Atsushi Nozu

PS2-Fri-18  Generation of Stochastic Input Ground Motion Model Using Genetic Algorithm
Kazushige Sakurai (Kansai University) · Satoshi Matsuda

PS2-Fri-19  Site Amplification Factor for Attenuation Relation
Satoshi Fujikawa (Institute of Technology, Shimizu Corporation) · Masata Sugio
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<td>Experimental Discussion on Earthquake Displacement Measurement by Using RTK-GPS</td>
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<td>Influence of Natural Period and the Dominant Period of Earthquake to the Slide Displacement of a Wooden Structure</td>
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Takayuki Sugimoto (Kinki Univ.) • Makoto Kageyama • Norio Iwata • Masahide Murakami

**PS2-Fri-44** Resisting Mechanism of Mortise-Tenon Joint with Cotter-Pin Subjected to Tensile Force and Constant Bending Moment
Masato Nakao (Yokohama National University) • Masami Gotou • Yoshiyuki Suzuki

**PS2-Fri-45** Evaluation of Restoring Force Characteristics of Mud-Plastered Wooden Frameworks by Traditional Construction Method in Tottori
Hiroyuki Nakaji (Tottori University of Environmental Studies) • Kouji Yamada • Yoshiyuki Suzuki

**PS2-Fri-46** Earthquake Response Analysis Based on Strength and Embedment Tests of Old Wooden Members
Yu Ooka (Ritsumeikan University) • Hideaki Tanahashi • Kazuyuki Izuno • Yoshiyuki Suzuki • Kenzo Toki

**PS2-Fri-47** Elastic Plastic Analysis of Damaged Wooden Building Structures on the 2007 Noto Hanto Earthquake
Masami Kobayashi (The University of Shiga Prefecture) • Saori Nakao

**PS2-Fri-48** Structural Health Monitoring and Evaluation of Damping Characteristics in a High Rise Steel Building Based on Microtremor Measurement
Toshiharu Arakawa (Meiji University)

**PS2-Fri-49** An Analytical Model for the Seismic Performance Evaluation of Unreinforced Masonry Building Reinforced with Wire Mesh
Mohammad Ashraf (University of Engineering & Technology Peshawar, Pakistan) • Akhtar Khan • Amjad Naseer • Shahzada Khan

**PS2-Fri-50** Study on Welding Reinforcement Effects of Single Angle Brace Joints in Seismic Retrofit
Shohei Kaida (Akita Pref. Univ.) • Keita Sakamoto • Akihiko Obata • Tetsuya Nishida • Jun Kobayashi

**PS2-Fri-51** Actual Measured Concrete Strength of Existing Reinforced Concrete School Buildings in Akita
Hideto Kanno (Akita Prefectural University) • Toshio Yamazaki • Tetsuya Nishida • Jun Kobayashi

**PS2-Fri-52** Simplified Method to Evaluate Ground Seismic Strains with Irregular Boundaries
Takashi Sakanoue (Tokyo Gas)

**PS2-Fri-53** Melody Making of Ground Motion Records
Nobuyuki Yamada (Fukuoka Univ. of Education)

**PS2-Fri-54** Experimental Study on Evaluation of Equivalent Stationary Vibration Against Strong Floor Response Using Long Stroke Shaking Table
Toru Takahashi (Chiba University) • Noriko Suzuki • Taiki Saito • Tatsuya Azuhata • Koichi Morita • Kazuya Noguchi

**PS2-Fri-55** Influences of Earthquake Disaster Experience on Risk Perception
Reo Kimura (Fuji Tokoha University) • Keiko Tamura • Munenari Inoguchi • Haruo Hayashi

**PS2-Fri-56** Influences of the Earthquake Disaster Experience on Relation to the Administrations
Keiko Tamura (Niigata University) • Reo Kimura • Munenari Inoguchi • Haruo Hayashi

**PS2-Fri-57** Characteristics of Long-Period Ground Motion Around Tokyo Bay Area Inferred from Broadband Earthquake Observation
Tomichi Uetake (Tokyo Electric Power Company)

**PS2-Fri-58** A Study on Probabilistic Earthquake Hazard Evaluation Adopting the Fault Rupture Model under Characteristic Stress Field
Takao Kagawa (Tottori University)
November 20 (Sat.)
10:00-14:30 (Core Time 12:30-14:30)

Multi-Purpose Hall

PS3-Sat-1  Liquefaction Characteristics of Granular Material Modeled Volcanic Coarse-Grained Soil
Noritaka Aramaki (Sojo University) • Junichi Kiyomatsu • Takumi Okabayashi

PS3-Sat-2  Liquefaction Characteristic of Intermediate Soil Including Gravel
Tadashi Hara (Kochi University) • Hirofumi Toyota • Susumu Takada • Kouichi Nakamura

PS3-Sat-3  Case Studies of Ground Motion on Silty Sand Layer during the Liquefaction
Toshikazu Morita (Fukushima National College of Technology) • Satoshi Ito

PS3-Sat-4  Consideration on the Change of S-H/V Spectral Ratio Due to Nonlinear Soil Response
Shinako Noguchi (The University of Tokyo) • Tsutomu Sasatani

PS3-Sat-5  Experimental Study on Asymmetric Vertical Acceleration Under Strong Motion
Tetsuo Tobita (Kyoto University) • Kouji Hada • Shin Aoi • Tomotaka Iwata • Susumu Iai

PS3-Sat-6  Effect of Shear Modulus and Volumetric Strain on Excess Pore Water Pressure Generation Condition
Teruhisa Fujii (Fukken Co. Ltd.) • Takahiro Sugano • Hiroshi Nakazawa • Kazuhiro Yamada • Yasutaka Kimura

PS3-Sat-7  A Dynamic Analysis Using Water Elements with Degree of Freedom of Displacements
Yousuke Ohya (Port and Airport Research Institute) • Nozomu Yoshida • Takahiro Sugano

PS3-Sat-8  Effect of the Thickness of Geological Strata on the Seismic Slope Failure at Volcanic Hilly Area
Shihou Asano (Forestry and Forest Products Research Institute)

PS3-Sat-9  Effect of Geographical Features for Slope Failure in the 2004 Mid Niigata Prefecture Earthquake and 2008 Iwate-Miyagi Nairiku Earthquake
Naoto Inoue (Geo-Research Institute)

PS3-Sat-10  Earthquake Behavior of Concrete-Block Retaining Wall and Simple Reinforced Concrete-Block Retaining Wall
Tsutomu Hirade (Building Research Institute) • Tadashi Mikoshiba • Kazuhiwa Mikami

PS3-Sat-11  Static Test on a 1/6 Scale of Specimen of Bridge Abutment and Its Simulation Analysis
Yukihide Kata (Kyushu University) • Toshiki Utsumi • Hisanori Otsuka • Kenji Tasaki • Seiya Hikino

PS3-Sat-12  Verification of Accuracy of Nonlinear Static Procedure by Using Observed Seismic Response of R/C Weak-Model Structure
Kenji Fujii (Chiba Institute of Technology)

PS3-Sat-13  Analysis of Vertical Ground Motions of Near Source Records in Japan and Their Effects on Nonlinear Responses of Steel Arch Bridges
Takanori Harada (Dept. of Civil and Environmental Engineering, University of Miyazaki) • Tetsuya Nonaka • Yoshiohda Kodama • Masaki Nakamura

PS3-Sat-14  Fpga Application to Real-Time Seismic Response Simulator for Large-Scale Structural Models
Akira Igarashi (Kyoto University) • Jun-Ichi Mashima

PS3-Sat-15  The Overall Evaluate of Various Factors to Influence an Earthquake Response of the Structure
Saori Agata (Tokyo City University) • Toshiyuki Katada • Naoki Suemasa • Fumitaka Arai

PS3-Sat-16  Improvement of Accuracy of Expected Seismic Intensities for Earthquake Early Warning in Japan by Using Empirically Estimated Site Amplification Factors
Kazuhiro Ikawaki (Meteorological Research Institute) • Mitsuyuki Hoshita • Kouji Nakamura • Nobuyuki Morikawa

PS3-Sat-20  Improvement of Back-Azimuth Estimation in Real-Time by Using Single Station Record
Shunroku Yamanoto (Railway Technical Research Institute) • Kimitoshi Asahiya • Shinji Sato • Masahiro Korenaga

PS3-Sat-21  Performance of Earthquake Early Warning of JMA and Its Technical Improvement
Toshihiro Shimoyama (Seismological and Volcanological Department, Japan Meteorological Agency) • Kazuyuki Hirano • Yasuyuki Yamada • Mitsuyuki Hoshita • Kazuo Ohtake • Kazuhiro Ikawaki

PS3-Sat-22  Real-Time Estimation of Seismic Intensity for Great Earthquakes Using Saturation Area of PGA Near Source Fault - Upgrading of Earthquake Early Warning System for Great Earthquakes-Susumu Kurahashi (Aichi Institute of Technology) • Kazuaki Masaki • Kojiro Irikura

PS3-Sat-23  A Method for Realtime Estimation of a Map of Earthquake Ground Motion
Iwao Suetomi (Eight-Japan Engineering Consultants Inc.) • Eisuke Ishida • Yasuhiro Fukushima

PS3-Sat-24  Improvements in the Processing Techniques of JMA Earthquake Early Warning to Introduce OBS Data
Kazuhiro Ohtake (Meteorological Research Institute, JMA) • Mitsuyuki Hoshita • Kazuhiro Ikawaki
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<td>Impact and Collapse Analysis of Neighboring Buildings under Long-Period Ground Motion</td>
<td>Daigoro Isobe (University of Tsukuba) · Tokiharu Ohta · Tomohiro Inoue · Fujio Matsueda</td>
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<tr>
<td>PS3-Sat-27</td>
<td>Status Report on Countermeasures Against Liquid Sloshing of Oil Storage Tank</td>
<td>Shinsaku Zama (National Research Institute of Fire and Disaster)</td>
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<td>PS3-Sat-28</td>
<td>A Study on Required Redundancy in Capacity Spectral Method</td>
<td>Tatsuya Azuhata (National Institute for Land and Infrastructure Management)</td>
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<td>PS2-Fri-35</td>
<td>Study on Vibration Characteristics of a High-Rise Building Using Results of Microtremor, Man-Power Excitation and Earthquake Response Measurement and Simulations of a 3-D Structure Model, and Seismic Retrofit Using Viscous Dampers</td>
<td>Tetsuo Yamashita (Kogakuin University) · Yukio Hoshi · Yoshiaki Hisada · Yoe Masuzawa · Kenta Shimamura</td>
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