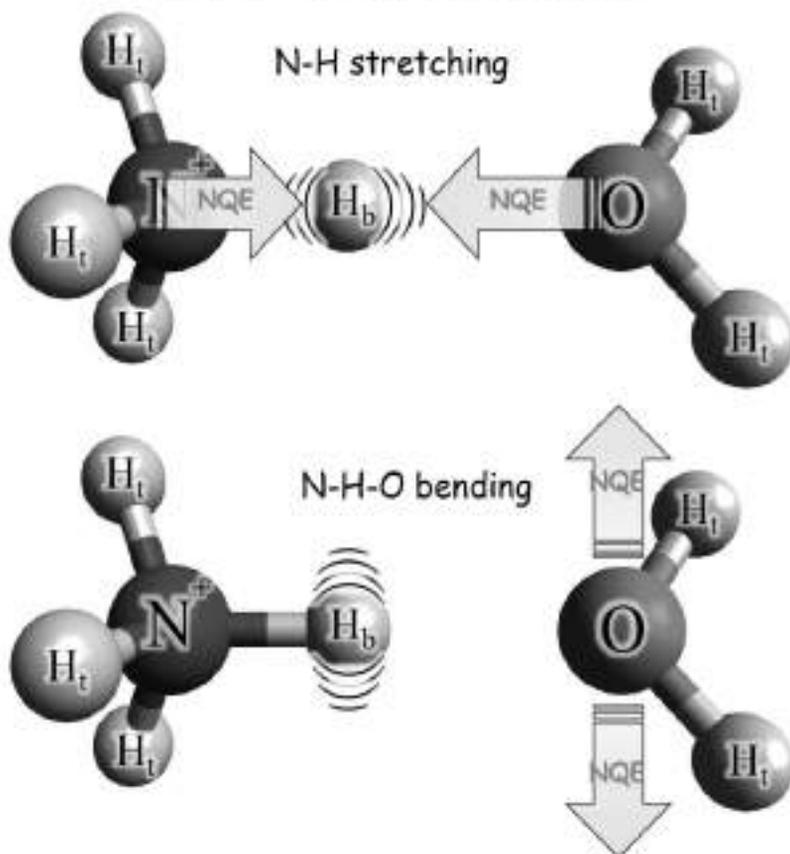


DV- $X\alpha$ 研究協會會報

Bulletin of the Society for Discrete Variational $X\alpha$

Vol.32, No.1&2 (2019)

Nuclear Quantum Effect (NQE)



DV- $X\alpha$ 研究会会報

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Conference Day 1: September 2, 2019	
08:00-09:00	Registration
09:00-09:15	Welcoming Speech Mega Novita, S.Si., M.Si., M.Nat.Sc., Ph.D (Chairperson of ICDM 2019, Universitas PGRI Semarang, Indonesia)
09:15-11:00	Lecture Session 1 Moderator: Prof. Jun Onoe (Nagoya University, Japan)
09:15-10:00	ABS-5 (Keynote Speaker) <i>Supramolecular Rare Sugar</i> Prof. Tomohiko Ishii Kagawa University, Japan
10:00-10:15	Coffee Break
10:15-11:00	ABS-42 (Keynote Speaker) <i>Microscopic crystal field effects in impurity centers formed by the transition metal ions</i> Prof. Mikhail G. Brik University of Tartu, Estonia
11:00-12:00	Lecture Session 2 Moderator: Dr. Retno Ambarwati (Universitas 17 Agustus 1945 Semarang Indonesia)
11:00-11:20	ABS-3 (Invited Speaker) <i>Sorption characteristics of ferrocyanide nanoparticles to metal ions in nitric acid solution for development of vitrification processes of high level radioactive nuclear wastes</i> J. Onoe ¹ , S. Watanabe ¹ , M. Harigai ² , Y. Inaba ² , and K. Takeshita ² ¹ Nagoya University, ² Tokyo Inst. Technol., Japan
11:20-11:40	ABS-29 (Invited Speaker) <i>Weak Hydrogen Bonding of Polymers Studied by Terahertz and Low-frequency Raman Spectroscopy</i> Prof. Harumi Sato Kobe University, Japan

11:40-12:00	<p>ABS-35 (Invited Speaker) <i>Recent applications of discrete variational multi-electron method</i> Prof. Kazuyoshi Ogasawara Kwansei Gakuin University, Japan</p>
12:00-13:00	Lunch Break
13:00-14:45	<p>Poster Session (3 Minutes Presentation) Moderator: Dr. Dyah Nugrahani (Universitas PGRI Semarang, Indonesia)</p>
	<p>ABS-4 <i>Crystal Size Effect in Polaritonic Luminescence from Atomic Cryocrystals</i> Alexander Ogurtsov, Olga Bliznjuk, Nataliia Masalitina National Technical University "KhPI" Ukraine</p>
	<p>ABS-9 <i>Prediction of $4f^2 \rightarrow 4f15d1$ transition energy of Pr^{3+} in fluorides based on first-principles calculations and machine learning</i> Hayato Obata, Kazuyoshi Ogasawara Kwansei Gakuin University, Japan</p>
	<p>ABS-10 <i>Optimization of first-principles calculation conditions of multiplet energies in Fe^{3+} and Co^{3+} in $\alpha-Al_2O_3$</i> Judo Fusamoto, Kazuyoshi Ogasawara Kwansei Gakuin University, Japan</p>
	<p>ABS-12 <i>Prediction of $4f^7 \rightarrow 4f65d1$ transition energies of Eu^{2+} in oxides based on first-principles calculations and machine learning</i> Hiroyuki Hori, Shota Takemura, Kazuyoshi Ogasawara Kwansei Gakuin University, Japan</p>
	<p>ABS-18 Controlling of the Spin State by Jahn-Teller Distortion in Octahedral Hexa- Coordinate Metal Complex T. Oguma, Y. Huzikawa, D. Tsuneda, Y. Tsutsumi, M. Nakano, T. Ishii, G. Sakane, Kagawa University, Japan</p>

	<p>ABS-19 Single-Crystal X-Ray Structural Analysis and Electronic Structures Calculation of Rare Sugar Bui Quoc Huy, Tomohiko Ishii, Norito Taniguchi, Natsumi Nagayama, Genta Sakane Kagawa University, Japan</p>
	<p>ABS-22 <i>Prediction of emission energy of Cr³⁺ in oxides based on first-principles calculations and machine learning</i> Tsubasa Hori, Kazuyoshi Ogasawara Kwansei Gakuin University, Japan</p>
	<p>ABS-23 <i>Consideration of Super Atomic Hybrid Orbital in Super Atom M@Al₁₂ (M = Be, Mg, Ca, Sr)</i> Teruyuki Toba, Ishii Tomohiko, Syoya Yamasaki, Sakane Genta Kagawa University, Japan</p>
	<p>ABS-24 <i>Mechanism of Optical Rotation of Amino Acids Using Electronic State Calculation</i> Shuuichi Katumoto, Manami Mimura, Tomohiko Ishii, and Genta Sakane Kagawa University, Japan</p>
	<p>ABS-25 <i>Generation of Two-Dimensional Spectrochemical Series in Tetrahedral Complexes</i> Takuhiro Yamamoto, Takeyoshi Oguma, Momoe Nakano, Akira Tsuneda, Yuki Tsutsumi, Tomohiko Ishii Kagawa University, Japan</p>
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	<p>ABS-27 <i>Single crystal X-ray structural analysis of sugar molecules and electronic theory</i> Norito TANIGUCHI, Tomohiko ISHII, Bui Quoc Huy, Natsumi NAGAYAMA, Genta SAKANE Kagawa University, Japan</p>
	<p>ABS-31 <i>Contribution of edge-carbon atoms and non-benzenoid rings in graphitic carbons to π^* peak profiles in CK-XANES</i> Yasuji Muramatsu and Yuma Hirai University of Hyogo, Japan</p>
	<p>ABS-48 <i>Designing Enterprise Architecture in Koperasi Karyawan using TOGAF Architecture Development Method</i> Noora Qotrun Nada, Setyoningsih Wibowo, Mega Novita Universitas PGRI Semarang, Indonesia</p>
	<p>ABS-49 <i>DECISION SUPPORT SYSTEM MUSEUM AMBASSADOR USING TOPSIS METHOD</i> Setyoningsih Wibowo, Maichifa Ayuning Tyas, Noora Qotrun Nada, Mega Novita Universitas PGRI Semarang, Indonesia</p>
	<p>ABS-50 <i>Design of Augmented Reality Game app "IntroME" using ADDIE Model</i> Rahmat Robi Waliyansyah, Irfan Nur Ridwan, Khoirul Huda, Febrian Murti Dewanto Universitas PGRI Semarang, Indonesia</p>
	<p>ABS-53 <i>DESIGNING ANDROID BASED EDUCATION GAME AKSARA JAWA USING SHUFFLE RANDOM ALGORITHM</i> Nugroho Dwi Saputro, Tri Ana Romadhani, Febrian Murti Dewanto Universitas PGRI Semarang, Indonesia</p>
14:45-15:00	Coffee break

15:00-16:30	Lecture Session 3 Moderator: Prof. Yasuji Muramatsu (University of Hyogo, Japan)
15:00-15:45	ABS-6 (Keynote Speaker) <i>X-ray Absorption Spectroscopy and Its Simulation for Some Metal Oxides</i> Prof. Deok-Yong Cho Chonbuk National University, South Korea
15:45-16:30	ABS-46 (Keynote Speaker) <i>Carotenoid Dynamics Free and Bound to Pigment Protein Complexes: The Role of the 11Bu- State</i> Prof. Ferdy Samuel Rondonuwu Satya Wacana Christian University, Indonesia
16:30-17:30	Lecture Session 4 Moderator: Asst. Prof. Laily Nur Affini
16:30-16:50	ABS-30 (Invited Speaker) <i>Metal complexes with sulfur-containing ligands</i> Masahiro Mikuriya and Makoto Handa Kwansei Gakuin University, Japan
16:50-17:10	ABS-54 (Invited Speaker) <i>Electronic state of sulfide-based alkali-ion conducting solid-state electrolytes applied to all-solid-state secondary batteries</i> Yoshiyuki Kowada, Yasukazu Akaki, Akiotoshi Hayashi, and Masahiro Tatsumisago Hyogo University of Teacher Education, Japan
17:10-17:30	ABS-55 (Invited Speaker) <i>Geometry and Stability of Small Gold Cluster Ions by Graph Theory and Hückel model</i> Rika Sekine, Takashi Kasai, Eri Furuta, and Masaya Okakura Shizuoka University, Japan
17:30-19:00	Break
19:00-21:00	Gala dinner

Conference Day 2: September 3, 2019	
08:00-10:00	<p>Parallel room 1</p> <p>Moderator: Prof. Masataka Mizuno (Osaka University, Japan)</p> <p>Asst. Moderator : Asst. Prof. Laily Nur Afini (Universitas PGRI Semarang, Indonesia)</p>
08:00-08:20	<p>ABS-1 (Invited Speaker)</p> <p><i>First-Principles Calculation of Laser Crystal Multiplet Levels via Hybridized Density Functional Theory and Configuration Interaction within the OLCAO Method</i></p> <p>Dr. Benjamin Walker</p> <p>University of Missouri - Kansas City, USA</p>
08:20-08:40	<p>ABS-8 (Invited Speaker)</p> <p><i>Systematic First-Principles Calculations of Charge Transfer Transitions of Transition Metal Ions (Sc^{3+}, Ti^{3+}, V^{3+}, Cr^{3+}, Mn^{3+}, Fe^{3+}) in $\alpha-Al_2O_3$ with Structural Optimization</i></p> <p>Shota Takemura¹, Mega Novita², Kazuyoshi Ogasawara¹</p> <p>Kwansei Gakuin University, Japan</p>
08:40-09:00	<p>ABS-16 (Invited Speaker)</p> <p><i>Study of LCAO-MO calculation by using completely numerical basis functions</i></p> <p>Katsumi Nakagawa</p> <p>MO Basics Research</p>
09:00-09:15	<p>ABS-13</p> <p><i>Lattice Relaxation Effects on the Multiplet Energies of Ruby Under Pressure using One-Electron Calculations</i></p> <p>Mega Novita, Nur Cholifah, Kazuyoshi Ogasawara</p> <p>Universitas PGRI Semarang, Indonesia, Kwansei Gakuin University, Japan</p>
09:15-09:30	<p>ABS-14</p> <p><i>Optical properties of Co^{3+} doped in $\alpha-Al_2O_3$ with Considering Lattice Relaxation Effect</i></p> <p>Mega Novita, Duwi Nuvitalia, Nur Cholifah, Kazuyoshi Ogasawara</p> <p>Universitas PGRI Semarang, Indonesia, Kwansei Gakuin University, Japan</p>

09:30-09:45	<p>ABS-15 <i>Effects of Transition Metal Doping to Cerium-Oxides in Thermal Reduction Reaction</i> Takaki Nishimura, Yuki Tsutsumi, Tomohiko Ishii, Tatsuya Kodama, and Genta Sakane Kagawa University, Japan</p>
09:45-10:00	<p>ABS-61 <i>Extraction Sentiment Analysis Using Naive Bayes Algorithm and Reducing Noise Word Applied in Indonesian Language</i> Aris Tri Jaka Harjanta, Bambang Agus Herlambang Universitas PGRI Semarang, Indonesia</p>
08:00-10:00	<p>Parallel room 2 Moderator: Prof. Prompong Pienpinijtham (Chulalongkom University Thailand) Asst. Moderator: Dr. Muchamad Taufiq Anwar (Universitas Stikubank, Indonesia)</p>
08:00-08:20	<p>ABS-2 (Invited Speaker) <i>Soil decontamination by cesium-free mineralization with CaCl₂: effect of chlorine on phase transformation of a clay mineral</i> Iwao Shimoyama Japan Atomic Energy Agency, Japan</p>
08:20-08:40	<p>ABS-7 (Invited Speaker) <i>Study on The Higher-Order Structure and Hydrogen Bonding of Biodegradable Polymer by Low-Frequency Vibrational Spectroscopy</i> Dian Marlina, Harumi Sato Kobe University, Japan</p>
08:40-09:00	<p>ABS-21 (Invited Speaker) <i>An elaborate response in molecular random network - Approach for information processing functionality-</i> Megumi Akai-Kasaya Osaka University, Japan</p>
09:00-09:15	<p>ABS-11 <i>Cultivation of Oreochromis niloticus with an Environmentally friendly Bioflog System</i> Endah Rita Sulistya Dewi, Ary Susatyo Nugroho, Maria Ulfah Universitas PGRI Semarang, Indonesia</p>

09:15-09:30	ABS-20 <i>Data Mining Application with Fuzzy Logic Method for Monitoring Vehicle Position Based on Android</i> Munaf Ismail, Sri Arttini Dwi Prasetyowati, Ida Widiastuti Universitas Islam Sultan Agung, Indonesia
09:30-09:45	ABS-33 <i>Smart Aquaponics Design Using Internet of Things Technology</i> R Hafid Hardyanto, Prahenusa Wahyu Ciptadi Universitas PGRI Yogyakarta, Indonesia
09:45-10:00	ABS-36 <i>Alternative Solutions For Determining Village Funds Using Weight Product Method</i> Tri Hastono, Firdiyan Syah Universitas PGRI Yogyakarta, Indonesia
10:00-10.15	Coffee Break
10:00-10:30	Preparation
10:30-12:30	Heading to Candi Borobudur
12:30-13:30	Lunch
13:30-18:00	Excursion
18:00-19:00	Dinner
19:00-21:00	Heading to Grand Candi Hotel, Semarang

Conference Day 3: September 4, 2019	
08:00-10:45	Parallel room 1 Moderator: Prof. Katsumi Nakagawa (MO Basic Research, Japan) Asst. Moderator: Dr. Dyah Nugrahani (Universitas PGRI Semarang, Indonesia)
08:00-08:20	ABS-34 (Invited Speaker) <i>Stability of carbon-vacancy complexes in α-Fe</i> Masataka Mizuno, Waka Yamada, Kazuki Sugita, Hideki Araki Osaka University, Japan
08:20-08:40	ABS-37 (Invited Speaker) <i>DESIGN OF ELECTRICITY ENERGY SOURCES IN SEMARANG PGRI UNIVERSITY USING OFF-GRID SOLAR PANEL SYSTEMS</i> Adhi Kusmantoro, Mega Novita, Th.Indriati Wardani Universitas PGRI Semarang, Indonesia
08:40-09:00	ABS-38 (Invited Speaker) <i>Novel shape analysis method for single bioparticles in aqueous solutions</i> Sou Ryuzaki, Makusu Tsutsui, Masateru Taniguchi Kyushu University, Japan
09:00-09:15	Coffee break
09:15-09:30	ABS-41 <i>BIOCONVERSION ON WASTEWATER OF SOYBEAN USING MICROBIAL FUEL CELL</i> Yohanes A Cahyono, Tilana Madurani, Widya F Azzahra and Retno A. S. Lestari Universitas 17 Agustus 1945 Semarang, Indonesia
09:30-09:45	ABS-44 <i>Potential of Ketapang Seed Oil (<i>Terminalia catappa</i> Linn) as Basic Material Mono-diglyceride Biodegradable Surfactant</i> Ery Fatarina Purwaningtyas, Khoir Fadilah Universitas 17 Agustus 1945 Semarang, Indonesia

09:45-10:00	<p>ABS-45 <i>BIOPLASTIC FROM JACKFRUIT SEEDS AND RICE WASTE</i> Retno A.S. Lestari, Mega Kasmiyatun, Kevin Dermawan, Alfia N. Aini, Nur Riyati, Finka R. Putri Universitas 17 Agustus 1945 Semarang, Indonesia</p>
10:00-10:15	<p>ABS-52 <i>The Multi-agents System for Job Recommender System</i> Meilany Nonsi Tentua, Azhari SN, Aina Musdholifah Universitas PGRI Yogyakarta, Indonesia</p>
10:15-10:30	<p>ABS-62 <i>The Effect Of Decomposer Microorganism Additions On The Natural Hydroponic Technology (Nht) Systems Of Pakcoi Growth</i> Ary Susatyo Nugroho¹, Endah Rita S. Dewi², M. Anas Dzakiy³ Program Studi Pendidikan Biologi FPMIPATI Universitas PGRI Semarang</p>
10:30-10:45	<p>ABS-58 <i>Interaction Analysis Application of Arduino Industrial Automation Trainer Based on Project to Improve Cognitive Ability and Bodily Kinesthetic Ability</i> Ir. Sulistyaning Kartikawati, MM, M.Pd., Sekreningsih Nita, S.Kom, MT. Universitas PGRI Madiun, Indonesia</p>
08:00-10:45	<p>Parallel room 2 Moderator: Dr. Benjamin Walker (University of Missouri - Kansas City) Asst. Moderator: Dr. Dian Marlina (Kobe University, Japan)</p>
08:00-08:20	<p>ABS-28 (Invited Speaker) <i>Structural changes in graphene oxide induced by silver nanoparticles – TERS study</i> Prompong Pienpinijtham, Sanpon Vantasin, Oraporn Wong-u-ra, Yasutaka Kitahama, Sanong Ekgasit and Yukihiro Ozaki Chulalongkom University Thailand</p>

08:20-08:40	<p>ABS-51 (Invited Speaker) <i>Phosphorus recovery through crystallization of struvite (MgNH₄PO₄.6H₂O): From basic research to applications</i> Stefanus Muryanto Universitas 17 Agustus 1945 Semarang, Indonesia</p>
08:40-09:00	<p>ABS-57 (Invited Speaker) <i>THE EFFECT OF CHLORIDE ACID (HCL) CONCENTRATION AND FERMENTATION ON BIOETHANOL LEVELS FROM BREADFRUIT (Artocarpus Artilis) SUBSTRATE</i> Nasrul Rofiah Hidayati Universitas PGRI Madiun</p>
09:00-09:15	Coffee break
09:15-09:30	<p>ABS-39 <i>Design of Product Monitoring System using Internet of Things Technology for Smart Manufacturing</i> Marti Widya Sari, Herianto, IGB Budi Dharma, Alva Edy Tontowi Universitas PGRI Yogyakarta, Indonesia</p>
09:30-09:45	<p>ABS-40 <i>A Novel and Fast Memory Perturbation Method to Increase Exploration in Particle Swarm Optimization Algorithm</i> Eri Zuliarso, Muchamad Taufiq Anwar, Kristophorus Hadiono, Iswatun Chasanah Universitas Stikubank, Indonesia</p>
09:45-10:00	<p>ABS-43 <i>Internet of Things (IOT) with Cloud Computing and Machine to Machine (M2M) communication in Aquaponics Farming Systems</i> Prahenusa Wahyu Cipadi, R.Hafid Hardyanto</p>
10:00-10:15	<p>ABS-47 <i>Detecting Hoaxes in Indonesian News Using TF-IDF and K Nearest Neighbor</i> Muchamad Taufiq Anwar, Edy Winarno, Iswatun Chasanah Universitas Stikubank, Indonesia</p>

10:15-10:30	<p>ABS-59 <i>ANALYSIS OF THE IMPACT NARRATIVE ALGORITHM METHOD, PSEUDOCODE AND FLOWCHART TOWARDS STUDENTS UNDERSTANDING OF THE PROGRAMMING ALGORITHM COURSES</i> Sekreningsih Nita, Sulistyning Kartikawati Universitas PGRI Madiun, Indonesia</p>
10:30-10:45	<p>ABS-60 <i>Prediction of The Number Job Seeker Using Backpropagation Neural Network Method</i> Khoiriya Latifah, Agung Handayanto, Anita Rahayu Universitas PGRI Semarang, Indonesia</p>
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11:00-12:00	<p>Closing Ceremony Moderator: Dr. Dyah Nugrahani (Universitas PGRI Semarang, Indonesia)</p>
11:00-11:35	<p>DV-$X\alpha$ meeting Prof. Yoshiyuki Kowada (Hyogo University of Teacher Education, Japan)</p>
11:35-11:55	<p>Awards Prof. Katsumi Nakagawa (MO Basic Research, Japan)</p>
11:55-12:00	<p>Closing statement Mega Novita, S.Si., M.Si., M.Nat.Sc., Ph.D (Chairperson of ICDM 2019, Universitas PGRI Semarang, Indonesia)</p>
12:00-13:00	Lunch

<編集後記>

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今号の表紙は横浜国立大学の桑畑和明先生にお願いしました。表紙の絵は随時募集していますので積極的な投稿をお待ちしております。

また、公告も受け付けておりますので、広告掲載をご希望の方は編集委員までお問い合わせ下さい。

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