

Program (14th Symposium on Molecular Spectroscopy)

May 16, 2014 (Fri)

21 KOMCEE B1 Lecture Hall

9:15		OPENING REMARKS (Yasuki ENDO)	[chair: Haruki ISHIKAWA]
9:20	L1	Electronic Excited States of Cata-Condensed Aromatic Hydrocarbons (Kyoto Univ./Molecular Photoscience Research Center, Kobe Univ.) <u>Toshiharu KATORI</u> , Megumi KAWABATA, Masaaki BABA, Sunji KASAHARA	
9:40	L2	The Structure of Deuterated Benzenes and Dynamics of Excited Molecules (Kyoto Univ.) Sachi KUNISHIGE	
10:00	L3	High-resolution spectroscopy of chloronaphthalene by single-mode UV Laser (Grad. School of Science, Kobe Univ./MPRC, Kobe Univ.) <u>Ryo YAMAMOTO</u> , Kenichiro KANAZAWA, Takumi NAKANO, Shunji KASAHARA	
10:20		BREAK	[chair: Masaru FUKUSHIMA]
10:30	L4	High-resolution laser spectroscopy of high vibrational state of naphthalene S ₁ state (Kobe Univ.) <u>Takumi NAKANO</u> , Ryo YAMAMOTO, Shunji KASAHARA	
10:50	L5	High resolution spectroscopy of naphthalene with an optical frequency comb (Fukuoka Univ.) <u>Akiko NISHIYAMA</u> , Ayumi MATSUBA, Masatoshi MISONO	
11:10	L6	Vibronic spectroscopy of isomeric dimethylbenzyl radicals generated from 1,2,4-trimethylbenzene: Assignments and Substituent effect (Pusan National University) Eun Hye YI, Young Wook YOON, <u>Sang Kuk LEE</u>	
11:30	L7	Electronic spectroscopy of the phenylthio radical and the phenoxy radical (Tokyo Univ. Science) <u>Mitsunori ARAKI</u> , Hiromichi WAKO, Kei NIWAYAMA, Koichi TSUKIYAMA	
11:50		LUNCH	[chair: Jian TANG]
12:55	L8	Infrared spectroscopic studies of Cs ₂ Ni(XO ₄) ₂ ·6H ₂ O (X = S, Se) and of NH ₄ ⁺ ions included in M ₂ Ni(XO ₄) ₂ ·6H ₂ O (M = Cs, Rb; X = S, Se) (University of Chemical Technology and Metallurgy/Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences) <u>V. KARADJOVA</u> , D. STOILOVA	
13:15	L9	Infrared spectroscopic study on the dihydrogen-bond involving Si-H group (Kitasato Univ.) <u>Haruki ISHIKAWA</u> , Risa INOMATA	
13:35	L10	Gas phase spectroscopy of adrenaline and its hydrated cluster by laser desorption supersonic jet technic (Tokyo institute of technology) <u>Woon Yong SOHN</u> , Shun-ichi ISHIUCHI, Masaaki FUJII	
13:55	L11	Why does the IR spectrum of hydroxide stretching vibration weaken with increase in hydration? (Institute of Atomic and Molecular Sciences Academia Sinica/Keio University) Masato MORITA, Hirokazu TAKAHASHI, Satoshi YABUSHITA, <u>Kaito TAKAHASHI</u>	

14:15	B R E A K		[chair: Fumiyuki ITO]
14:30	L12	Dual-Comb Spectroscopy over 1.0–1.7 μ m (Keio Univ./NMIJ, AIST) <u>Kana IWAKUNI</u> , Sho OKUBO, Hajime INABA, Kazumoto HOSAKA, Atsushi ONAE, Hiroyuki SASADA, Feng-Lei HONG	
14:50	L13	Observation of interstellar H ₂ F ⁺ with the Herschel space telescope (Okayama Univ./Nagoya Univ./Univ. of Toyama/Univ. of Waterloo) <u>Kentarou KAWAGUCHI</u> , Mina IMAI, Ryuji FUJIMORI, Fusakazu MATSUSHIMA, Takayoshi AMANO	
15:10	L14	CH ₅ ⁺ (AIST/Univ. Cologne) <u>Koichi YAMADA</u> , Oskar ASVANY, Sandra BRÜNKEN, Stephan SCHLEMMER	
15:30	L15	Frequency Measurement of the Terahertz Rotational Lines of HCO ⁺ and DCO ⁺ (Univ. of Toyama/Univ. of Waterloo) Ryo OISHI, Tatsuya MIYAMOTO, <u>Mari SUZUKI</u> , Yoshiki MORIWAKI, Fusakazu MATSUSHIMA, Takayoshi AMANO	
15:50	L16	Observation of carbon isotope anomaly of CO ₂ in the Venusian mesosphere (Nagoya Univ.) <u>Yasuhiro HIRAHARA</u> , Sho SHIBATA	
16:10	B R E A K		[chair: Yoshiaki KAWASHIMA]
16:30	S1	[INVITED TALK: "MORINO LECTURE"] Microwave Spectroscopy of Biomolecular Building Blocks (Universidad de Valladolid) José L. ALONSO	
18:00	B A N Q U E T		(Komaba Faculty House)

May 17, 2014 (Sat)

21 KOMCEE B1 Lecture Hall

			[chair: Kensuke HARADA]
9:15	L17	High-resolution Laser spectroscopy of the B–X transition of ¹⁴ NO ₃ radical (Kobe Univ./Hiroshima City Univ./Sokendai) <u>Shunji KASAHARA</u> , Tsuyoshi TAKASHINO, Kohei TADA, Takashi ISHIWATA, Eizi HIROTA	
9:35	L18	High-resolution laser spectroscopy of the B–X transition 0–0 band of ¹⁵ NO ₃ radical (Kobe Univ./Hiroshima City Univ./The Graduate Univ. for Advanced Studies) <u>Kohei TADA</u> , Kanon TERAMOTO, Shunji KASAHARA, Takashi ISHIWATA, Eizi HIROTA	
9:55	L19	Four Wave Mixing Spectroscopy of the NO ₃ B ² E'–X ² A ₂ ' transition (Hiroshima City University) <u>Masaru FUKUSHIMA</u> , Takashi ISHIWATA	
10:15	L20	Laser spectroscopy of the SiC ₃ H radical (The University of Tokyo) <u>Hiroya UMEKI</u> , Masakazu NAKAJIMA, Yasuki ENDO	
10:35	B R E A K		

[chair: Asao MIZOGUCHI]

- 10:50 L21 HeH⁺, HeD⁺, HeT⁺, BeH, BeD, and BeT Potentials that Reproduce All Measured Energy Transitions, and for the HeH⁺ Isotopologues are Accurate up to the Inclusion of Relativistic and Leading Fourth Order QED Effects in the Long-Range Region beyond Available Experiments
(Oxford Univ./Adam Mickiewicz Univ./Int. Institute of Molecular and Cell Biology, Univ. of Arizona) Staszek WELSH, Mariusz PUCHALSKI, Grzegorz LACH, Tsung WEI-CHENG, Ludwik ADAMOWICZ, Nikesh S. DATTANI
- 11:10 L22 Halo Nucleic Molecules: Molecules Formed from at Least One Atom with a Halo Nucleus. Emphasis on ^{11,11}Li₂ along with Other Exotic Isotopologues
(Oxford University) Nike DATTANI, Staszek WELSH
- 11:30 L23 Deperturbation analysis and observations of forbidden transitions between singlet and triplet states of C₂
(Okayama Univ.) Wan CHEN, Jian TANG, Kentarou KAWAGUCH
- 11:50 L24 Perturbation analysis between the $a^3\Pi_u$ and $c^3\Sigma_u^+$ states of C₂
(Univ. Tokyo) Masakazu NAKAJIMA, Yasuki ENDO
- 12:10 L25 Radiative decay process between the $\Omega = 1_{u/g}$ ion-pair states of I₂
(Tokyo Univ. of Science) Shoma HOSHINO, Mitsunori ARAKI, Koichi TSUKIYAMA

12:20 L U N C H

[chair: Yasuki ENDO]

- 13:30 S2 [INVITED TALK]
Cold, Large Molecules: Chirality, Trace Detection and Sticking
(Harvard University) J. M. DOYLE
- 14:20 L26 Development of a cold and slow PbO beam towards microwave Stark deceleration
(Univ. of Toyama) K. ENOMOTO, T. YOSHIHARA, D. YONEZAWA, K. KOBAYASHI, F. MATSUSHIMA, Y. MORIWAKI
- 14:40 L27 Dependence of rotational linewidth of HO₂ radical by collisions with rare gases
(Tokyo Institute of Technology) K. KURIBAYASHI, A. MIZOGUCHI, H. KANAMORI

15:00 B R E A K

[chair: Takahiro OYAMA]

- 15:15 L28 Microwave Spectroscopy of the H₂-DCN Molecular Complex
(Kyushu Univ./Univ. of Tokyo) K. TANAKA, M. ISHIGURO, K. HARADA, Y. SUMIYOSHI, M. NAKASHIMA, Y. ENDO
- 15:35 L29 Fourier-transform microwave spectroscopy of the H₂-H₂O complex
(Kyushu University/ICSWSE/Shizuoka University) Kensuke HARADA, Keiichi TANAKA, Hirofumi KUBOTA, Toshiaki OKABAYASHI
- 15:55 L30 Microwave and infrared spectra of H₂ containing complexes with CO, HCN, HCCH
(Jilin University) Dan HOU, Yu ZHAI, Ken CHEN, Xiao-Long ZHANG, Hui LI
- 16:15 L31 FTMW spectroscopy of H₂S-AuSH
(Shizuoka Univ.) Toshiaki OKABAYASHI, Hirofumi KUBOTA

16:35 CONCLUDING REMARKS