

Period: August 26–31, 2019

Venue: Science South Bldg. and Mathematics Bldg., Nagoya University

The 19th International Conference, Graduate School of Mathematics, Nagoya University

The 8th China–Japan–Korea International Symposium on Ring Theory

Period: August 26-31, 2019

Venue: Sakata–Hirata Hall, Science South Building., Rooms 409, 309, 109, Mathematics Building, Nagoya University, Nagoya, Japan

Invited Speakers:

Susumu Ariki (Osaka University, JPN), Gyu Whan Chang (Incheon National University, KOR), Xianhui Fu (Northeast Normal University, CHN), Bernhard Keller (University of Paris 7, FRA), Sei-Qwon Oh (Chungnam National University, KOR), S. Paul Smith (University of Washington, USA), Yuji Yoshino (Okayama University, JPN), Pu Zhang (Shanghai Jiao Tong University, CHN).

Organizers:

JAPAN

Hideto Asashiba (Shizuoka University), Osamu Iyama (Nagoya University), Shigeto Kawata (Nagoya City University), Kazutoshi Koike (National Institute of Technology, Okinawa College), Yosuke Kuratomi (Yamaguchi University), Masahisa Sato (Aichi University).

<u>CHINA</u>

Nanqing Ding (Nanjing University), Jianlong Chen (Southeast University), Fang Li (Zhejiang University),

Quanshui Wu (Fudan University).

KOREA

Nam Kyun Kim (Hanbat National University),

Tai Keun Kwak (Daejin University),

Mi Hee Park (Chung Ang University).

TIME TABLE

August 26 (Mon), 2019

	Sakata–Hirata Hall			
09:00-10:50		Registration		
10:50-11:10		Opening		
11:20-12:10		Yuji Yoshino		
		Lunch Break		
Room 509 Room 309 Room 109				
13:40-14:00	Takuma Aihara	Tsiu-Kwen Lee	Ziyu Guo	
14:10-14:30	Takahiro Honma Tai Keun Kwak Jung-Miao Ku		Jung-Miao Kuo	
14:40-15:00	Takahide Adachi Nam Kyun Kim Tsunekazu Nishinak		Tsunekazu Nishinaka	
15:10-15:30	Mayu Tsukamoto Kui Hu Diah Junia Eksi Palupi			
		Coffee Break		
16:00-16:20	Toshinori Kobayashi	Jianlong Chen	Nanqing Ding	
16:30-16:50	Naoya Hiramatsu	Xiaofeng Chen	Lixin Mao	
17:00-17:20	Kei-ichiro Iima	Xiankun Du	Manoj Kumar Patel	

August 27 (Tue), 2019

	Sakata-Hirata Hall			
09:00-09:50	Bernhard Keller			
		Coffee Break		
10:20-11:10		Tsutomu Nakamura		
11:20-12:10		Sei-Qwon Oh		
		Lunch Break		
	Room 509	Room 309	Room 109	
13:40-14:00	Sota Asai	Naoki Endo	Masahisa Sato	
14:10-14:30	Toshiya Yurikusa Ryotaro Isobe Yoshiharu Shib		Yoshiharu Shibata	
14:40-15:00	Toshitaka Aoki Kazuho Ozeki Gangyong Lee		Gangyong Lee	
15:10-15:30	Yuta Kozakai Naoyuki Matsuoka Derya Keskin Tütün		Derya Keskin Tütüncü	
		Coffee Break		
16:00-16:20	Aaron Chan	Yoshitomo Baba	Hwankoo Kim	
16:30–16:50	Zhaoyong Huang	Thomas Dorsey	Izuru Mori	
17:00-17:20	Na'imah Hijriati	Meimei Jiang	Kenta Ueyama	

	•	():		
	Sakata–Hirata Hall			
09:00-09:50	Pace P. Nielsen			
		Coffee Break		
10:20-11:10		Haruhisa Enomoto		
11:20-12:10	Jiwei He			
		Lunch Break		
	Room 509	Room 309	Room 109	
13:40-14:00	Kunio Yamagata		Ayako Itaba	
14:10-14:30	Hideto Asashiba Guodong Shi Tomohiro			
14:40-15:00	Yasuaki Ogawa Linlin Liu Hideyuki Koi			
15:10-15:30	Xuefeng MaoShenglin ZhuSatoshi Usui			
		Coffee Break		
16:00-16:20	Haibo Jin	Tongsuo Wu	Dong Yeol Oh	
16:30-16:50	Norihiro Hanihara	Yuehui Zhang	Mi Hee Park	
17:00-17:20	Kota Yamaura Shaotao Zhu Andreas Reinhart			
18:00-21:00	Conference Banquet			

August 28 (Wed), 2019

August 29 (Thu), 2019

	Sakata-Hirata Hall
09:00-09:50	Michał Ziembowski
	Coffee Break
10:20-11:10	Hiroyuki Minamoto
11:20-12:10	Xianhui Fu

	Sakata-Hirata Hall			
09:00-09:50	S. Paul Smith			
		Coffee Break		
10:20-11:10		Yoshiyuki Kimura		
11:20-12:10	Nan Gao			
		Lunch Break		
	Room 509	Room 309	Room 109	
13:40-14:00	De Chuan Zhou	Iwan Ernanto	Ryo Kanda	
14:10-14:30	Kaori Shimada Sutopo Masaki Matsuno		Masaki Matsuno	
14:40-15:00	Shinya Kumashiro	Shinya Kumashiro Kazunori Nakamoto		
15:10-15:30	Maiko Ono		Indah Emilia Wijayanti	
		Coffee Break		
16:00-16:20	Erik Darpö Guisong Zhou		Guisong Zhou	
16:30–16:50	Yingying Zhang		Libin Li	
17:00-17:20	Xiaojin Zhang Zhixiang Wu			

August 30 (Fri), 2019

August 31 (Sat), 2019

	Sakata–Hirata Hall
09:00-09:50	Gyu Whan Chang
	Coffee Break
10:20-11:10	Kenichi Shimizu
11:20-12:10	Susumu Ariki
	Lunch Break
14:00-14:50	Pu Zhang

PROGRAM

- * SH ... Sakata-Hirata Hall, Science South Bldg.,
 - 509 ... Room 509, Mathematics Bldg.,
 - 309 ... Room 309, Mathematics Bldg.,
 - 109 ... Room 109, Mathematics Bldg.

Day 1: August 26 (Mon), 2019

- 10:50-11:10 SH Opening 11:20–12:10 SH Yuji Yoshino (Okayama University, JPN) Auslander-Bridger theory for projective complexes over commutative Noetherian rings 13:40-14:00 509 Takuma Aihara (Tokyo Gakugei University, JPN) On the weakly Iwanaga–Gorenstein property of gendo algebras 309 Tsiu-Kwen Lee (National Taiwan University, TWN) A note on Skolem-Noether algebras 109 Ziyu Guo (Beijing University of Technology, CHN) Cohomology rings and application in hypernormal form for a class of 4-dimensional vector fields 14:10-14:30 509 Takahiro Honma (Tokyo University of Science, JPN) On the gendo-symmetric algebra of a trivial extension algebra 309 Tai Keun Kwak (Daejin University, KOR) On CRP rings 109 Jung-Miao Kuo (National Chung Hsing University, TWN) Partial group actions and partial Galois extensions 14:40-15:00 509 Takahide Adachi (Osaka Prefecture University, JPN) On balanced Auslander–Dlab–Ringel algebras 309 Nam Kyun Kim (Hanbat National University, KOR) Characterizations of radicals in skew polynomial and skew Laurent polynomial rings 109 Tsunekazu Nishinaka (University of Hyogo, JPN) On Thompson's group F and its group algebra 15:10-15:30 509 Mayu Tsukamoto (Yamaguchi University, JPN) Constructions of rejective chains 309 Kui Hu (Southwest University of Science and Technology, CHN / Kyungpook National University, KOR) Some results on Noetherian Warfield domains Diah Junia Eksi Palupi (Universitas Gadjah Mada, IDN) 109 The construction of a continuous linear representation from a topological group into topological module space over principle ideal domain 16:00-16:20 509 Toshinori Kobayashi (Nagoya University, JPN) A characterization of local rings of countable representation type
 - 309 Jianlong Chen (Southeast University, CHN) Generalized inverses and clean decompositions
 - 109 Nanqing Ding (Nanjing University, CHN) On Enochs conjecture

16:30–16:50	509	Naoya Hiramatsu (National Institute of Technology, JPN) A remark on graded countable Cohen–Macaulay representation type
	309	Xiaofeng Chen (Southeast University, CHN) The right core inverses of a product and a companion matrix
	109	Lixin Mao (Nanjing Institute of Technology, CHN) Relative coherent modules and semihereditary modules
17:00-17:20	509	Kei-ichiro lima (National Institute of Technology, JPN) On the 2-test modules of projectivity and weakly m-full ideals
	309	Xiankun Du (Jilin University, CHN) Triangularization of matrices and polynomial maps
	109	Manoj Kumar Patel (National Institute of Technology Nagaland, IND) A note on FI -semi injective modules
Day 2: Aug	ust 27	' (Tue), 2019
09:00-09:50	SH	Bernhard Keller (University of Paris 7, FRA) Tate–Hochschild cohomology from the singularity category
10:20-11:10	SH	Tsutomu Nakamura (University of Verona, JPN) Pure derived categories and weak balanced big Cohen–Macaulay modules
11:20-12:10	SH	Sei-Qwon Oh (Chungnam National University, KOR) Relationships between quantized algebras and their semiclassical limits
13:40-14:00	509	Sota Asai (Research Institute for Mathematical Sciences, JPN) Wide subcategories and lattices of torsion classes
	309	Naoki Endo (Waseda University, JPN) Almost Gorenstein Rees algebras
	109	Masahisa Sato (Aichi University, JPN) Is Ware's problem true or not?
14:10-14:30	509	Toshiya Yurikusa (Nagoya University, JPN) Density of g -vector cones from triangulated surfaces
	309	Ryotaro Isobe (Chiba University, JPN) Ulrich ideals in hypersurfaces
	109	Yoshiharu Shibata (Yamaguchi University, JPN) When is a quasi-discrete module quasi-projective?
14:40-15:00	509	Toshitaka Aoki (Nagoya University, JPN) g -polytopes of Brauer graph algebras
	309	Kazuho Ozeki (Yamaguchi University, JPN) The structure of Sally modules and normal Hilbert coefficients
	109	Gangyong Lee (Chungnam National University, KOR) Rudimentary rings: Rings have a faithful indecomposable endoregular module
15:10–15:30	509	Yuta Kozakai (Shibaura Institute of Technology, JPN) Mutations for star-to-tree complexes and pointed Brauer trees
	309	Naoyuki Matsuoka (Meiji University, JPN) Efficient generation of ideals in core subalgebras of the polynomial ring $k[t]$ over a field k
	109	Derya Keskin Tütüncü (Hacettepe University, TUR) Baer–Kaplansky Classes in categories

- 16:00–16:20 509 Aaron Chan (Nagoya University, JPN) Recollement of comodule categories over coalgebra objects
 - 309 Yoshitomo Baba (Osaka Kyoiku University, JPN) On two sided Harada rings and QF rings
 - 109 Hwankoo Kim (Hoseo University, KOR) A new semistar operation on a commutative ring and its applications
- 16:30–16:50 509 Zhaoyong Huang (Nanjing University, CHN) The extension dimension of Abelian categories
 - 309 Thomas Dorsey (Center for Communications Research, USA) Questions and counterexamples on strongly clean rings
 - 109 Izuru Mori (Shizuoka University, JPN) Noncommutative Matrix Factorizations and Knörrer's Periodicity Theorem
- 17:00–17:20 509 Na'imah Hijriati (Universitas Gadjah Mada, IDN) On representation of a ring with unity on a module over a ring with unity
 - 309 Meimei Jiang (Jiangsu Second Normal University, CHN) McCoy property over Jacobson radicals
 - 109 Kenta Ueyama (Hirosaki University, JPN) Knörrer's periodicity for skew quadric hypersurfaces

Day 3: August 28 (Wed), 2019

09:00-09:50	SH	Pace P. Nielsen (Brigham Young University, USA) Nilpotent polynomials with non-nilpotent coefficients
10:20-11:10	SH	Haruhisa Enomoto (Nagoya University, JPN) The Jordan–Hölder property, Grothendieck monoids and Bruhat inversions
11:20–12:10	SH	Jiwei He (Hangzhou Normal University, CHN) Noncommutative Auslander theorem and noncommutative quotient singularities
13:40-14:00	509	Kunio Yamagata (Tokyo Univeristy of Agriculture and Technology, JPN) On a problem of socle-deformations of self-injective orbit algebras
	109	Ayako Itaba (Tokyo University of Science, JPN) Hochschild cohomology of Beilinson algebras of graded down-up algebras
14:10-14:30	509	Hideto Asashiba (Shizuoka University, JPN) 2-categorical Cohen–Montgomery duality between categories with I-pseudo- actions and I-graded categories for a small category I
	309	Guodong Shi (Southeast University, CHN) Q -graded Hopf quasigroups
	109	Tomohiro Itagaki (Tokyo University of Science, JPN) The Hochschild cohomology of a class of exceptional periodic selfinjective algebras of polynomial growth
14:40-15:00	509	Yasuaki Ogawa (Nagoya University, JPN) General heart construction and the Gabriel–Quillen embedding
	309	Linlin Liu (Southeast University, CHN) Rota–Baxter H -operators and pre-Lie H -pseudoalgebras over a cocommutative Hopf algebra H
	109	Hideyuki Koie (National Institute of Technology, JPN)

An application of a theorem of Sheila Brenner for Hochschild extension algebras of a truncated quiver algebra

15:10-15:30	509	Xuefeng Mao (Shanghai University, CHN) DG polynomial algebras and their homological properties
	309	Shenglin Zhu (Fudan University, CHN) Structures of irreducible Yetter–Drinfeld modules over quasi-triangular Hopf algebras
	109	Satoshi Usui (Tokyo University of Science, JPN) A Batalin–Vilkovisky differential on the complete cohomology ring of a Frobenius algebra
16:00-16:20	509	Haibo Jin (Nagoya University, JPN) Cohen–Macaulay differential graded modules and negative Calabi–Yau configura- tions
	309	Tongsuo Wu (Shanghai Jiao Tong University, CHN) Boolean graphs — A Survey
	109	Dong Yeol Oh (Chosun University, KOR) The chain conditions on ideals in composite generalized power series rings
16:30–16:50	509	Norihiro Hanihara (Nagoya University, JPN) Cohen–Macaulay modules over Yoneda algebras
	309	Yuehui Zhang (Shanghai Jiao Tong University, CHN) Directed partial orders over non-Archimedean fields
	109	Mi Hee Park (Chung-Ang University, KOR) Noetherian-like properties in polynomial and power series rings
17:00-17:20	509	Kota Yamaura (University of Yamanashi, JPN) Happel's functor and homologically well-graded Iwanaga–Gorenstein algebras
	309	Shaotao Zhu (Beijing University of Technology, CHN) Quaternion ring and application in hypernormal form of 4 dimensional semi-simple nonlinear dynamical systems
	109	Andreas Reinhart (Incheon National University, KOR) On the monoid of ideals of orders in quadratic number fields
Day 4: Aug	ust 29	(Thu), 2019
00.00 00.50	CII	Michael Ziembeweld (W

09:00-09:50	SH	Michał Ziembowski (Warsaw University of Technology, POL) Lie solvability in matrix algebras
10:20-11:10	SH	Hiroyuki Minamoto (Osaka Prefecture University, JPN) On a cubical generalization of preprojective algebras
11:20-12:10	SH	Xianhui Fu (Northeast Normal University, CHN) Ideal approximation theory

Day 5: August 30 (Fri), 2019

09:00-09:50	SH	S. Paul Smith (University of Washington, USA)
		Elliptic algebras

- 10:20–11:10 SH Yoshiyuki Kimura (Osaka Prefecture University, JPN) Twist automorphism of quantum unipotent cells and the dual canonical bases
- 11:20–12:10 SH Nan Gao (Shanghai University, CHN) A functorial approach to monomorphism category for species

13:40-14:00	509	De Chuan Zhou (Southwest University of Science and Technology, CHN / Hoseo University, KOR) On an open problem concerning the small finitistic dimension of a commutative ring
	309	lwan Ernanto (Universitas Gadjah Mada, IDN) Arithmetic modules over generalized Dedekind domain
	109	Ryo Kanda (Osaka University, JPN) The characteristic variety of an elliptic algebra
14:10-14:30	509	Kaori Shimada (Meiji University, JPN) On the radius of the category of extensions of matrix factorizations
	309	Sutopo (Universitas Gadjah Mada, IDN) Positively Graded rings which are maximal orders and Generalized Dedekind Rings
	109	Masaki Matsuno (Shizuoka University, JPN) AS-regularity of geometric algebras of plane cubic curves
14:40-15:00	509	Shinya Kumashiro (Chiba University, JPN) The Auslander–Reiten conjecture for non-Gorenstein rings
	109	Kazunori Nakamoto (University of Yamanashi, JPN) An application of Hochschild cohomology to the moduli of subalgebras of the full matrix ring II
15:10–15:30	509	Maiko Ono (Okayama University, JPN) On liftable DG modules over a commutative DG algebra
	109	Indah Emilia Wijayanti (Universitas Gadjah Mada, IDN) On generalized Dedekind modules over generalized Dedekind domain
16:00-16:20	509	Erik Darpö (Nagoya University, JPN) Functors between higher cluster categories of type A
	109	Guisong Zhou (Ningbo University, CHN) The structure of connected (Hopf) algebras
16:30–16:50	509	Yingying Zhang (Hohai University, CHN) Semibricks, wide subcategories and recollements
	109	Libin Li (Yangzhou University, CHN) The center subalgebra of the quantized enveloping algebra of a simple Lie algebra revisited
17:00-17:20	509	Xiaojin Zhang (Nanjing University of Information Science and Technology, CHN) Tilting modules over Auslander–Gorenstein algebras
	109	Zhixiang Wu (Zhejiang University, CHN) The classification of Leibniz conformal algebras of rank three
Day 6: Aug	ust 31	(Sat), 2019
09:00–09:50	SH	Gyu Whan Chang (Incheon National University, KOR) Unique factorization property of non-UFDs
10:20-11:10	SH	Kenichi Shimizu (Shibaura Institute of Technology, JPN) Action functor formalism
	~	

11:20–12:10 SH Susumu Ariki (Osaka University, JPN) On cyclotomic quiver Hecke algebras of affine type

14:00–14:50 SH Pu Zhang (Shanghai Jiao Tong University, CHN) Gorenstein-projective and semi-Gorenstein-projective modules

INFORMATION

Welcome to Nagoya. The following information will be useful in helping you enjoy your stay during the conference. Please feel free to get in touch with the organizers and secretaries if any questions arise or if you encounter unexpected trouble.

Conference Venue

The conference takes place at Sakata–Hirata Hall in Science South Building, and Room 109, 309, 509 in Mathematics Bldg. on campus (Figure A).

Registration Desk

From August 26 to 30, the registration desk will be set in following places. You can pick up your conference package.

August 26 (Mon)–28 (Wed), 2019		
Morning	(1) lobby of Sakata–Hirata Hall, Science South Bldg.	
Afternoon	(2) doorway of Room 509, Mathematics Bldg.	
August 29 (Thu), 2019		
Morning	(1) lobby of Sakata–Hirata Hall, Science South Bldg.	
Afternoon	— closed —	
August 30 (Fri), 2019		
Morning	(1) lobby of Sakata–Hirata Hall, Science South Bldg.	
Afternoon	(2) doorway of Room 509, Mathematics Bldg.	

Table 1: Registration Desk

* The last day, the registration desk will not be opened. So, talk to organizers.

If you need to make copies, please ask at the registration desk. Those who want to ask something else can do at the desk as well.

Coffee Breaks

Coffee and some drinks will be served at:

Conference Room	Drink Service
Sakata–Hirata Hall	lobby
Room 509	5F Lounge
Room 309	3F Lounge
Room 109	inside of the room

Table 2: Drink Service

All participants are requested not to bring food into conference room.

Restaurants

For lunch and dinner, there are some restaurants in the campus, or outside of the campus. You will find them in Figure D.

Group photo

We will take a group photo of all participants in the Sakata–Hirata Hall. We are planning this on August 27 (Tue) just after the morning session.

Banquet

The banquet will be held on August 28 (Wed) from 18:00 at the cafeteria "Mei-dining" in the westside campus (Figure A). The cost for the banquet will be 3,000 JPY per attendee.

If you want to join the banquet, please come to the registration desk by 17:30 on August 27.

Library

The participants may use the Science Library.

Location: Science Building A, 1st Floor (Figure A) Hours: 9:00–17:00 Services: The browsing, reference are available.

Please ask the librarians for details.

Money Exchange

You will find a Post Office authorized to conduct foreign money exchange on campus (Figure A). Japan Post Bank provides cash withdrawal services for credit cards and cash cards issued by overseas financial institutions. Cards bearing

VISA, VISAELECTRON, VISA PLUS, MasterCard, Maestro, Cirrus, American Express, Diners Club, JCB, China Unionpay and DISCOVER

can make withdrawals at Japan Post Bank ATMs. The ATMs on campus (Figure A).

Sightseeing

Please consult the brochures you received at the registration desk and the following webpages for other sight seeing spots in and around Nagoya.

http://www.nagoya-info.jp/en/see/pickup/

is a good place to start.

MAPS

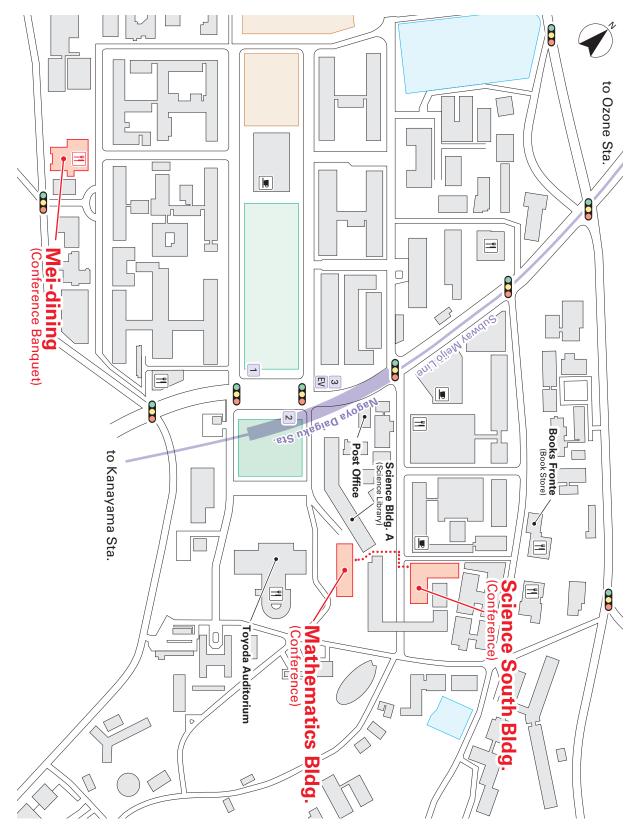


Figure A: Campus map

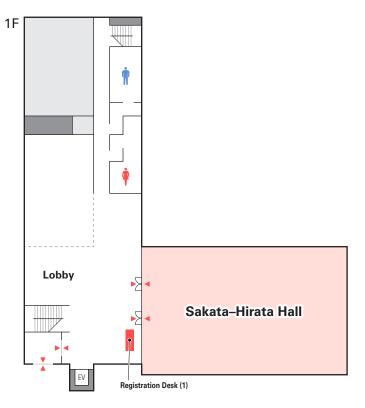


Figure B: Floor map of Science South Bldg.

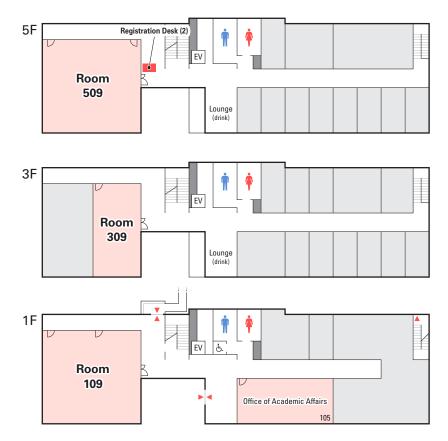


Figure C: Floor map of Mathematics Bldg.

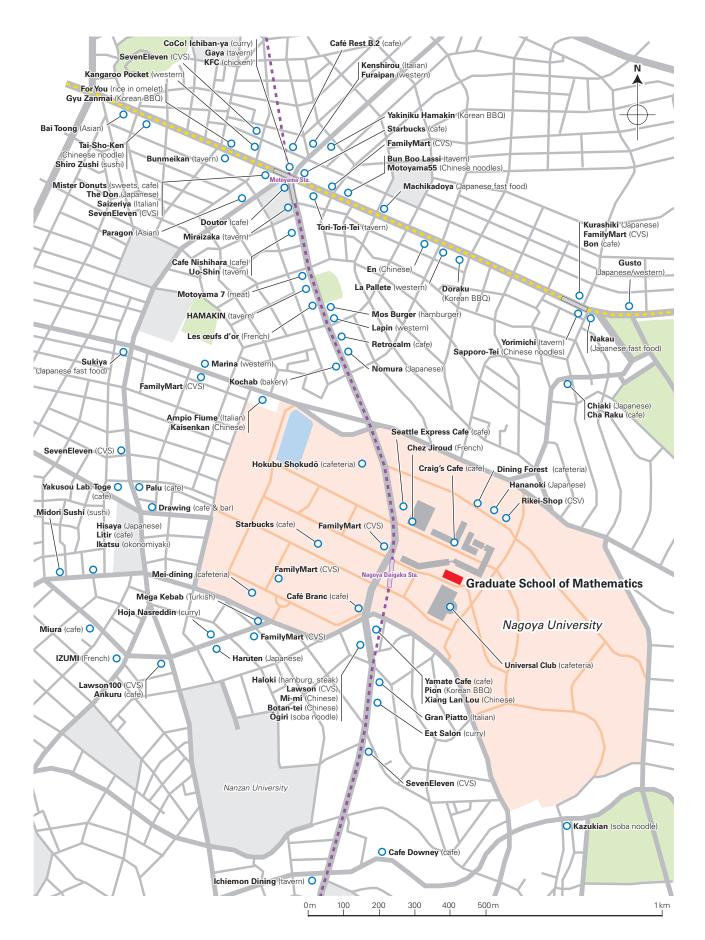


Figure D: Lunch Map