

2008년도 가을 연구발표회 발표 논문목록

(*발표자: 가나다 순)

Alejandro Adem(Univ. of British Columbia & PIMS) : Commuting matrices and spaces of homomorphisms

Heisuke Hironaka(Harvard Univ.) : TBA

백진호(Univ. of Michigan) : Random permutations and random matrices

Habib Ammari(Ecole Polytechnique & CNRS) : Asymptotic spectral analysis with applications in imaging, effective medium theory, and optimal design

Michèle Artigue(Université de Paris VII) : Digital technologies and mathematics education

Bernard R. Hodgson(Univ. Laval) : Some views on ICMI at the dawn of its second century

Hoon Hong(North Carolina State Univ.): Subresultants in Roots

Masaki Kashiwara(Kyoto Univ.) : Crystal bases and combinatorics

Anthony To-Ming Lau(Univ. of Alberta) : Separation and extension properties for positive definite functions for groups

Tohru Ozawa(Hokkaido Univ.) : Global existence of analytic solutions to nonlinear Schrödinger equations

Roland Speicher(Queens Univ.) : Invariance under quantum permutations and free probability theory

Ulrike Tillmann(Oxford Univ.) : The cohomology of moduli spaces

Nicole Tomczak-Jaegermann(Univ. of Alberta) : Random embeddings and other high-dimensional geometric phenomena

Takao Yamaguchi(Univ. of Tsukuba) : Collapsing and essential coverings of Riemannian manifolds

곽진호(포항공대) : Enumerating chiral maps on surfaces with a given underlying graph

김인숙(성균관대) : Bifurcation problems for nonlinear equations

서수길(연세대) : Truncated Euler systems over imaginary quadratic fields

송홍엽(연세대) : Choi's orthogonal latin squares is at least 67 years earlier than Euler's

이창욱*(카이스트), 박은희(카이스트), 조혜림(카이스트) : A dual iterative substructuring method with a penalty term

<Algebra>

Reza Sharafadini*(부산대), Mitsugu Hirasaka(부산대) : On schemes with at most three irreducible characters

Phan Thanh Toan(포항공대) : Krull dimension of power series rings over almost Dedekind domains
 김경탁*(부산대), Mitsugu Hirasaka(부산대) : On p -covalenced association schemes
 김대산(서강대) : Infinite families of recursive formulas generating power moments of Kloosterman sums: $O^+(2n, 2^r)$ case
 김태균(광운대) : On the symmetries of q -Bernoulli polynomials
 문은정*(경북대), 박홍경(경북대), 임석훈(경북대) : On Genocchi numbers and polynomials
 송석준*(제주대), Luis Hernandez(Physics Institute(Spain, Madrid)): Dimension of the intersection of a pair of orthogonal groups

<Analysis>

Takuya Hosokawa(고려대) : Weighted composition operator on weighted Bloch spaces
 강보원*(충남대), 최성규(충남대), 구남집(충남대) : On stability of dynamic equations on time scales via unified quasisimilarity
 강정임(국가수리과학연구소) : Fixed point set of semigroups of non-expansive mappings and amenability
 권도용(포항공대) : The natural extensions of β -transformations which generalize baker's transformations
 권오상(포항공대) : Existence of multi-bump standing waves with a critical frequency for nonlinear Schrödinger equations with potentials vanishing at infinity
 김대욱*(부산대), 정일효(부산대) : Global existence for a nonlinear hyperbolic equation with the mixed boundary conditions
 김명현*(성균관대), 김재우(성균관대) : Local regularity of the Navier-Stokes equations up to the boundary
 김연호*(성균관대), 김인숙(성균관대) : A global bifurcation for the p -Laplacian in an unbounded domain
 김재우*(성균관대), 김명현(성균관대) : Local regularity of the steady state Navier-Stokes equations in five dimensions
 김종규(경남대) : Algorithms for a new system of generalized mixed quasi-variational inclusions involving (A, η) -accretive mappings
 김종호*(국가수리과학연구소), 정순영(서강대) : Comparison principles for the p -Laplacian on nonlinear networks
 김주명(국가수리과학연구소) : Three-space problem for the weak bounded approximation property
 김희섭*(경북대), 임용도(경북대) : An extended matrix exponential formula
 박선혜(부산대) : Stabilization of hyperbolic hemivariational inequalities of viscoelasticity
 박원길*(국가수리과학연구소), 배재형(경희대) : A functional equation related to elliptic curves
 박재현*(서강대), 정순영(서강대) : Bounds of the smallest Dirichlet eigenvalue for the p -Schrödinger operators on finite networks
 변지수*(포항공대), 조홍래(부산대) : The explicit computations of automorphism group of special domains
 손지애*(충남대), 김학만(충남대) : Extension stability for the median Euler-Lagrange quadratic functional equation
 심인보(부산대) : C^1 -regularity of solutions for p -Laplacian and its application
 안은경*(경북대), 임용도(경북대) : Monotone and jointly homogeneous mappings on normal cones

- 안흥주*(국가수리과학연구소), G. Zampieri(Univ. of Padova) : Global regularity of $\bar{\partial}$ on an annulus between a Q-pseudoconvex and a P-pseudoconcave boundary
- 이병수*(경성대), 강미광(동의대) : Generalized vector implicit complementarity problems with corresponding variational inequality problems
- 이영란*(서강대), Dirk Hundertmark(Univ. of Illinois) : Decay estimates and smoothness for solutions of the dispersion managed non-linear Schrödinger equation
- 이영수*(카이스트), 정순영(서강대) : Extinction properties of the heat equations with absorption on networks
- 이주리*(충남대), 전길웅(충남대) : On the generalized stability for cubic functional equation of mixed type
- 이호수*(경북대), 김희섭(경북대), 김세정(Louisiana State Univ.) : A converse inequality of higher-order three weighted arithmetic and geometric means of positive definite operators
- 정윤성*(성균관대), 정순영(서강대) : Algebraic algorithms to identify point sources for partial differential equations
- 정재욱*(동의대), 김수환(동의대) : Iterative algorithm for a new system of generalized set-valued nonlinear mixed quasi-variational-like inclusions with (H, η) -accretive mappings in Banach spaces
- 정택선*(군산대), 최규홍(인하대) : Multiple solutions for a class of the systems of the nonlinear elliptic equations
- 조동현*(경기대), 김봉진(대진대) : Analogues of conditional Fourier-Feynman transform and convolution on a function space
- 조열제*(경상대), Yisheng Song(Henan Normal Univ.) : On Halpern's open problem
- 진범자(목포대) : L^1-L^1 estimate of the Stokes flow in the half space
- 최규홍*(인하대), 정택선(군산대) : Variational approach and the multiplicity result for a class of the systems of the suspension bridge
- 하태갑*(부산대), 박종열(부산대) : Well-posedness and uniform decay rates for the Klein-Gordon equation with damping term and acoustic boundary conditions
- 한종민*(한국외대), Masoud Yari(Indiana Univ.) : Dynamic bifurcation of the complex Swift-Hohenberg equation

<Geometry>

- 김호일*(경북대), 이창영(세종대), Hirodeki Nakajima(성균관대) : Super Heisenberg group and noncommutative super torus
- 박준식(부산외국어대) : Invariant Yang-Mills connections with Weyl structure
- 서검교(고등과학원) : Isoperimetric inequalities for soap film-like surfaces spanning nonclosed curves
- 성찬영(국가수리과학연구소) : On the nonexistence of Einstein metric on 4-manifolds
- 신용호(울산대) : On generic submanifolds with Sasakian structure of $S^n(\frac{1}{\sqrt{2}}) \times S^n(\frac{1}{\sqrt{2}})$
- 양성덕*(고려대), 김영욱(고려대), 고성은(건국대), 신해용(중앙대), 이형용(고려대) : A characterization of helicoids in Nil(3)
- 이승훈(영동대) : Invariant minimal unit vector fields on some Lie groups
- 이일룡(경성대) : On Douglas space with an approximate infinite series (α, β) -metric

이현진*(경북대), 서영진(경북대) : Real hypersurfaces of type B in complex two-plane Grassmannians related with the Reeb vector

정승달*(제주대), Ken Richardson(Texas Christian Univ.) : Transverse conformal Killing forms and related topics

정임순*(국가수리과학연구소), Juan de Dios Pérez(Universidad de Granada), 서영진(경북대) : Real hypersurfaces in complex two-plane Grassmannians with parallel structure Jacobi operator

조철현(서울대) : Floer theory on toric manifold

한종규(서울대) : Foliations associated with Pfaffian systems

<Topology>

김동석(경기대) : Combinatorial webs of the representation category of the quantum Lie superalgebra $\mathfrak{sl}(1|1)$

김정수(건국대) : Handlebody-preserving finite group actions on Haken manifolds with Heegaard genus two - II

김훈*(카이스트), 진교택(카이스트), 전춘배(대덕대학), 장승욱(한국과학영재학교), 문상혁(한국과학영재학교), 박상현(한국과학영재학교), 송유신(한국과학영재학교) : Lattice edge number of figure-8 knot

박준미*(충남대), 이건희(충남대) : C^1 -stably inverse shadowable homoclinic classes

박희상*(서울대), 박종일(서울대), 신동수(포항공대) : A simply connected surface of general type with $p_g = 0$ and $K^2 = 4$

서명수*(경북대), 이상윤(부산대) : On a presentation of knots and links and an associated link type invariant

신준국*(충남대), 구대환(충남대) : Infra-Nilmanifolds modeled on twisted quaternionic Heisenberg group

이인숙*(경북대), 배용주(경북대) : A matrix formula and its application to the Alexander polynomial of periodic link

이정훈(고등과학원) : On the union stabilization of two Heegaard splittings

최수영*(카이스트), Taras Panov(Moscow State Univ.), 서동엽(카이스트) : Toric cohomological rigidity of simple polytope

최태영(국가수리과학연구소) : Limit shadowing property in differentiable dynamical systems

한상언(전북대) : Cartesian product of the universal covering property

<Probability and Statistics>

김윤경(동신대) : The concepts of tightness for fuzzy random variables

최승희*(한국항공대), 윤진희(연세대) : Fuzzy regression based on distribution free methods

<Applied Mathematics>

Huimin Jing*(Graduate Univ. of Chinese Academy of Sciences), Huai Zhang(Graduate Univ. of Chinese Academy of Sciences), Yaolin Shi(Graduate Univ. of Chinese Academy of Sciences), 김광익(포항공대) : Numerical simulation for the analysis of wave hazard in POSCO new harbor

Le Anh Tuan*(Ninh Thuan College of Pedagogy), 이규명(부경대), Pham Huu Sach(Hanoi Institute of Mathematics) : Upper semicontinuity result for the solution mapping of a mixed parametric generalized vector quasiequilibrium problems with moving cones

강선영*(국가수리과학연구소), 전원주(국가수리과학연구소) : An accurate numerical solution of

Fredholm integral equation with a non-smooth kernel occurring in inverse problems of string vibration

권오성*(포항공대), 권재룡(포항공대) : For the Stokes problem with mixed boundary conditions on the L-shaped domain

권정혜*(동서대), 명호성(동서대), 이병국(동서대), 이준재(계명대), 윤정호(이화여자대) : Image deformation using radial basis function interpolation

김귀수*(부경대), 이규명(부경대) : On ϵ -optimality conditions for convex optimization problem

김문희(동명대) : Some remarks on nondifferentiable multiobjective optimization problem

김봉조*(카이스트), 최건호(카이스트) : High precision numerical estimation of the largest Lyapunov exponent

김영표*(포항공대), 권재룡(포항공대) : A finite element method for the edge singularity of the Laplace equation

김은연(국가수리과학연구소) : MULTI-K: accurate classification of microarray samples using multiple k-means clustering

박보람*(서울대), 김서령(서울대), Yoshio Sano(Kyoto Univ.) : Some bounds for the competition numbers of complete multipartite graphs in terms of Latin squares

양성대*(국가수리과학연구소), 권희대(인하대), 이지현(연세대) : Eigen series solutions to exact controllability problems on wave equations

양인석(경북대) : Robust synchronization of chaotic pendulum systems using sliding mode control

이경섭*(카이스트), 최건호(카이스트) : Financial models based on Poisson distributions with conditional intensity

이상희(국가수리과학연구소) : Prey flock escaping behavior under a predator's attack

이윤희*(포항공대), 권용훈(포항공대) : The simulation of Korea population dynamics by parameter estimations

이정연*(서울대), 김석진(건국대), 김서령(서울대), Yoshio Sano(Kyoto Univ.) : Competition number of a graph G with exactly one maximal clique of size ≥ 3

이정엽*(고등과학원), Boris Solomyak(Univ. of Washington) : The Meyer property on substitution point sets

장봉수(포항공대) : Effective elastic modulus of periodic composite materials

장현진*(카이스트), 최건호(카이스트) : K th default time distribution and basket default swap pricing

전영미*(동서대), 최남석(동서대), 이병국(동서대), 이문배(이화여자대), 윤정호(이화여자대) : k -nearest moving least square approximation using Gaussian function

조유영*(부산대), 이용훈(부산대), 조경미(동서대) : A new interior point method for linear optimization based on kernel functions

최보경*(부경대), 이규명(부경대) : On complexity analysis of the primal-dual interior-point method for second-order cone optimization problem

최형준*(포항공대), 권재룡(포항공대) : Corner singularities for the Maxwell's equations in the concave domain

표재홍(강원대) : New singular function method for domain singularities

황성임*(국가수리과학연구소), 이선미(건국대) : Three-dimensional localized solitary wave solutions generated a moving bump

황치옥*(국가수리과학연구소), 김승연(충주대) : New directions of statistical physics in the age of

computational science: Yang-Lee zero phase transition approach for 2-D triangular antiferromagnets

<Mathematics for Information Sciences>

Yoshio Sano(Kyoto Univ.) : On the rank functions of \mathcal{H} -matroids

강경태(제주대) : Regular matrices and their strong preservers over semirings

강한국(국가수리과학연구소) : Considering the structures of a kind of simple graphs on the lattice \mathbb{Z}^n

김대산(서강대) : Codes associated with $O^+(2n, 2^r)$ and power moments of Kloosterman sums

김덕선*(성균관대), 이상구(성균관대) : A new voice pattern recognition method based on SVD perturbation

김주형(국가수리과학연구소) : An orthogonality between pairs of split decompositions for a Q -polynomial distance-regular graph

박종욱(포항공대) : On a class of distance regular graph with diameter three

방세정*(부산대), Jack Koolen(포항공대), Vincent Moulton(Univ. of East Anglia) : The Bannai-Ito conjecture

오동렬*(국가수리과학연구소), 김현광(포항공대), 이준엽(포항공대) : Optimal codes over deletion and insertion metric

이우순(포항공대) : Algebraic properties of completely regular codes

이준엽(포항공대) : Analyses of Eulerian and Stirling numbers in terms of polytope numbers

조진환(수원대) : Entries of integral primitive matrices

주형관*(전남대), 서승현(강원대) : Enumeration of binary matrices avoiding certain types of 2 by 2 minors

최선화(건국대) : A cyclic compartmental model approach to the nemesis of consciousness: Alzheimer's

최수학*(포항공대), 김현광(포항공대) : The uniqueness of the optimal codes

<Mathematical Education>

박혜숙(서원대) : Mentoring with concrete teaching materials

양정모(한국학술진흥재단) : The difference between mathematical science and science focused on research funding and performance

이상구*(성균관대), 함윤미(경기대) : Colonial education policy and the last 100 years of Korean mathematics

최영환(한국수학교육학회) : Teaching of mathematics in and out of school

<Cryptography>

강주성(국민대) : A hybrid algorithm for privacy preserving association rule mining

마대건*(서울대), 홍진(서울대) : Success probability of the Hellman trade-Off

박정열*(카이스트), 한상근(카이스트) : Computation of Gröbner basis of polynomials over F_2 using F_5 algorithm

서석충*(고려대), 한동국(ETRI), 홍석희(고려대) : An efficient implementation of elliptic curve cryptosystems on 16-bit Tmote Sky sensor motes

엄수경*(이화여대), 이파라(이화여대), 이향숙(이화여대) : Tate pairing computation on divisors of hyperelliptic curves

이문성(카이스트) : On cryptanalysis of the GGH cryptosystem

이주영*(ETRI), 염용진(ETRI) : Efficient RFID authentication protocols based on pseudorandom sequence generators

한대완(ETRI) : Application of PolyBoRi and SAT-solvers to cryptanalysis

홍정대*(서울대), 김정우(서울대), 박근수(서울대), 천정희(서울대) : ElGamal with polynomial and its applications: Set-union, E-voting

<Number Theory>

주관교수 : 서수길(연세대)

Keiichi Gunji(포항공대) : On Siegel Eisenstein series of degree two for low weights

권도용*(포항공대), Shigeki Akiyama(Niigata Univ.) : Constructions of Pisot and Salem numbers with flat palindromes

김대열(국가수리과학연구소) : The number of solutions for elliptic curves

박부성(고등과학원) : Simple proofs for universal binary Hermitian lattices

신동화*(카이스트), 구자경(카이스트), 정호윤(카이스트) : On some ray class invariants over imaginary quadratic fields

오병권*(세종대), W. K. Chan(Wesleyan Univ.) : Almost universal ternary sums of triangular numbers

임보혜(중앙대) : Generalizing a theorem of Richard Brauer

임성근(포항공대) : Several modular transformation formulae and infinite series identities from the generalized Eisenstein series

임수봉(포항공대) : Lerch sums and Jacobi theta functions(a preliminary report)

임종렬(포항공대) : Equidistribution of Jacobi forms(Preliminary report)

진석호(포항공대) : A preliminary report on the application of Jacobi Eisenstein series

최도훈(한국항공대) : Congruences for level four cusp forms

<Representation Theory>

주관교수 : 오영탁(서강대), Alistair Savage(Univ. of Ottawa)

Alistair Savage(Univ. of Ottawa) : Moduli spaces of sheaves and the boson-fermion correspondence

Peter Tingley(Univ. of Melbourne) : Three combinatorial models for affine $sl(n)$ crystals

권재훈*(서울시립대), Shun-Jen Cheng(Academia Sinica) : Howe duality and Kostant type homology formula for Lie superalgebras

문동호(세종대) : Reduction formulae from the factorization theorem of Littlewood-Richardson polynomials by King, Tollu and Toumazet

이동일*(고등과학원), 강석진(서울대), 박의용(서울대), 박형주(고등과학원) : A generalization of Castelnuovo-Mumford regularity for representations

<Noncommutative Rings>

주관교수 : 김남균(한밭대)

김남균*(한밭대), 홍찬용(경희대), 이양(부산대), Pace P. Nielsen(Univ. of Iowa) : The minimal prime

spectrum of rings with annihilator conditions

박상원(동아대) : Representations of quivers with finite edges

백종욱*(경희대), 박지연(경희대) : The diameter and girth of line graphs of zero-divisor graphs

이양(부산대) : The McCoy condition on non-commutative rings

이창익(부산대) : On K -rings and related rings

전영철*(한국과학영재학교), 김남균(한밭대), 이양(부산대) : On fully idempotent rings

한준철(부산대) : The group action in the ring of integers modulo n

홍찬용*(경희대), 김남균(한밭대), 이양(부산대) : Ore extensions of quasi-Baer rings and principally quasi-Baer rings

<Algebraic Geometry>

주관교수 : 김영록(한국외국어대)

박의성(고려대) : On secant loci and simple linear projections of some projective varieties

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신동수(포항공대) : The minimal degree of plane models of double covers of smooth curves

안재만*(공주대), 광시중(카이스트) : Projecting linear syzygies and applications

우영호(고등과학원) : Cayley-Bacharach conjecture and LPP conjecture

이남훈*(홍익대), A. Kovalev(Univ. Cambridge) : Non-symplectic manifolds and G_2 -manifolds

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전병흡(카이스트) : Class field theory of differential equations

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최인송(건국대) : Endomorphisms of hypersurfaces of Fano varieties

한강진*(카이스트), 광시중(카이스트) : Syzygetic structures of inner projections

황동선*(카이스트), 금종해(고등과학원) : On homological algebraic Montgomery-Yang problem

<Harmonic Analysis and Applications>

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이정진(포항공대) : Endpoint bilinear estimate for oscillatory integral operators related to the cone

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최부림(고려대) : Revisit to Carleson measures

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홍성금(조선대) : Maximal operators associated with smooth cylinder multipliers

<p-adic Functional Analysis and their Applications>

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- 김민수*(국가수리과학연구소), 손진우(경남대) : p -adic numbers and related p -adic integrals
김영희*(광운대), 유천성(한남대) : A numerical investigation on the structure of the roots of the twisted q -Euler polynomials
김원주*(건국대), 장이채(건국대), 김영희(광운대) : The symmetry for the distribution of twisted q -Genocchi polynomials
박경호(경북대) : Genocchi numbers and functions associated with the basic Fourier transform
임석훈(경북대), 문은정(경북대) : q -Euler numbers and polynomials associated with basic zeta functions

<Applied Harmonic Analysis>

주관교수 : 권길현(카이스트)

- 장신욱*(카이스트), 권길현(카이스트) : Average sampling on shift invariant spaces
김래영*(영남대), 김홍오(카이스트), Ole Christensen(Technical Univ. of Denmark) : Gabor frame generators on $[-1, 1]$ with compactly supported duals
김종민*(국가수리과학연구소), 권길현(카이스트) : Multi-channel sampling in shift-invariant spaces connected with sampling of multi-band signals
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이동원(경북대) : Discrete classical multiple orthogonal polynomials and difference relations
이재규*(카이스트), 권길현(카이스트) : Irregular sampling on shift invariant spaces
장수미*(카이스트), 김홍오(카이스트), 이연주(Univ. of Wisconsin), 윤정호(이화여대) : A generalization of the polynomial interpolatory filter
홍윤미*(카이스트), Goetz Pfander(Jacobs Univ. Bremen) : Multichannel and irregular sampling of operators

<Functional Analysis>

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extension property

이훈희*(Univ. of Waterloo), Brian E. Forrest(Univ. of Waterloo), Ebrahim Samei(Univ. of Saskatchewan)
: Projectivity of modules over Fourier algebras

최윤성(포항공대) : Polynomial numerical index

최창선*(카이스트), 이근영(카이스트) : Vector measures induced by integration

<Inverse Problems for Imaging>

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김성환*(한밭대), 우현균(삼성전자), 서진근(연세대) : On electrical capacitance tomography for visualizing the flow of a mixture of high/low conducting components

이지현*(연세대), 전성찬(광주과기대), 서진근(연세대), 우응제(경희대) : Frequency difference EIT using a weighted voltage difference

이현대*(인하대), 강현배(인하대), Habib Ammari(Ecole Polytechnique) : Asymptotic spectral analysis and its applications

<Mathematical Biology>

주관교수 : 김용국(경북대)

Yasuhisa Saito(부산대) : A well-balanced condition for multi-species coexistence in chemostat-type equations

Gul Zaman*(부산대), 정일효(부산대), 강용환(울산대) : Optimal vaccination of communicable diseases

권희대(인하대) : Applications of optimal control theory to mathematical models of biological systems

백현기*(경북대), 도영해(경북대), 김동석(경기대) : Dynamic complexities of a three-species Beddington-DeAngelis system with impulsive control strategy

정창도(경북대) : Cannibalism effects on a basic stage structure

<Modular Approach in Mathematics Education>

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박정준*(서울시립대), 신현혜(서울시립대), 정계선(서울시립대), 송준호(서울시립대) : Modules for education of contexts in calculus

신현혜*(서울시립대), 박정준(서울시립대), 정계선(서울시립대), 송준호(서울시립대) : Example modules in mathematics education

정계선*(서울시립대), 박정준(서울시립대), 신현혜(서울시립대), 송준호(서울시립대) : Figure modules in mathematics education

정명신*(서울시립대), 민현수(서울시립대), 박인규(서울시립대), 김근범(서울시립대), 이현주(서울시립대), 장세덕(서울시립대) : Math module application in physics education

<Mathematical Logic and Foundations>

주관교수 : 박창균(서경대)

김병환(연세대) : The notion of Fraïssé limit as the generic structure of finite structures

박창균(서경대) : Intuitionism, constructivism and intuitionistic logic

정주희(경북대) : Interpretations and semantic embedding