The 3rd East Asian School of Knots, Links and Related Topics

speaker affiliation [chairperson]
talk-tittle

5 February MONDAY

09:45–10:00 Opening Speech

10:00–10:50 Masakazu Teragaito (Hiroshima University)   [Mitsuyoshi Kato]
    A Seifert fibered manifold with infinitely many knot-surgery descriptions

11:05–11:55 Ni, Yi (Princeton University)   [Ki Hyoung Ko]
    Knot Floer homology detects fibred knots

12:10–13:00 Sang Jin Lee (Konkuk University)   [Scicheng Wang]
    Properties of translation numbers in Garside groups

Lunch

ROOM 1   [Scicheng Wang]

15:00–15:20 Yong Ju Bae (Kyungpook National University)
    On the presentation of links as a sum of two descending tangles
    (Joint work with In Sook Lee and Sowon Kim)

15:30–15:50 InDae Jong (Osaka City University)
    On Alexander Polynomials of Special Alternating Links

16:05–16:25 Toshifumi Tanaka (Osaka City University)
    The kinkiness of knots and smooth four-manifolds

16:35–16:55 Seo Jung Park (KAIST)
    Quadrisecants of hexagonal trefoil knot

17:10–17:30 Alexander Stoimenow (Kyoto University)
    Alexander polynomials, minimal genus, and fibering of arborescent links

17:40–18:00 Shigekazu Nakabo (Kurume National College of Technology)
    Q-polynomial of 2-bridge links in terms of Chebyshev polynomials

18:10–18:30 Myoungsoo Seo (Pusan National University)
    Casson knot invariants of periodic knots with rational quotients
    (Joint work with Hee Jeong Jang and Sang Youl Lee)

ROOM 2   [Ki Hyoung Ko]

15:00–15:20 Ryo Nikkuni (Kanazawa University)
    Symmetries of spatial graphs and Simon invariants
    (Joint work with Kouki Taniyama)

15:30–15:50 Choon Bae Jeon (Daeduk College)
    Knots and links in linear embeddings of K_6
    (Joint work with Youngsik Huh)

16:05–16:25 Young Sik Huh (Hanyang University)
    Projections of bouquet graph with two cycles

16:35–16:55 Qin, Jiahu (Heilongjiang University)
    Triangle-Y exchanges on intrinsic knotting of almost complete partite graphs

17:10–17:30 Toshie Takata (Niigata University)
    On the set of the logarithm of the LMO invariant for integral homology 3-spheres

17:40–18:00 Dongseok Kim (Yeungnam University)
    Representation theory of quantum Lie algebras and their link invariants

18:10–18:30 Fumikazu Nagasato (Tokyo Institute of Technology)
    Algebraic varieties via the Kauffman bracket skein module

ROOM 3 [Mitsuyoshi Kato]

15:00–15:20 Zhang, Mingxing (Dalian University of Technology)
Handle additions on simple manifolds
(Joint work with Ruifeng Qiu and Yannan Li)

15:30–15:50 Tang, Zizhou (Beijing Normal University)
Chern-Simons invariants and conformal embedding of 3-manifold

16:05–16:25 Yasushi Yamashita (Nara Women's University)
Siskind's conjecture and the growth functions of two bridge link groups
(Joint work with Yu Fujikawa, Yoshiyuki Nakagawa, and Makoto Tamura)

16:35–16:55 Hiroko Murai (Nara Women's University)
Gap of codimension one foliations

17:10–17:30 Yu, Bin (Peking University)
Smale-Williams type attractors in 3-manifolds

17:40–18:00 Ikuo Tayama (Osaka City University)
Enumerating 3−manifolds by a canonical order, II
(Joint work with Akio Kawauchi)

6 February TUESDAY

10:00–10:50 Gyo Taek Jin (KAIST)   [Yasutaka Nakanishi]
Arc index of prime knots up to 11 crossings

11:05–11:55 Hirotaka Akiyoshi (Osaka City University)   [Hiroshi Goda]
End invariant and Jorgensen's side parameter of the punctured torus groups

12:10–13:00 Qiu, Ruifeng (Dalian University of Technology)   [Masakazu Teragaito]
Stabilizations and operations of Heegaard splittings

Lunch

ROOM 1 [Yasutaka Nakanishi]

15:00–15:20 Liu, Ximin (Dalian University of Technology)
Cyclic group actions on elliptic surfaces

15:30–15:50 Du, Xiaoming (Peking University)
Mapping Degrees Between S^n bundles over S^2

16:05–16:25 Jae Choon Cha (ICU)
Witt class defect invariants, homology cobordism, and link concordance

16:35–16:55 Se Goo Kim (Kyoung Hee University)
Computation of concordance invariants of algebraically slice knots

17:10–17:30 Akira Yasuhara (Tokyo Gakugei University)
Claspers and link-homotopy classification of string links

17:40–18:00 Sumiko Horiuchi (Tokyo Woman's Christian University)
On a ball in a metric space of knots by delta moves

18:10–18:30 Tadayuki Watanabe (Kyoto University)
Higher dimensional claspers and characteristic classes

ROOM 2   [Makoto Sakuma]

15:00–15:20 Takahiro Kitayama (Tokyo University)
  Refinement of twisted Alexander invariants and sign-determined Reidemeister torsions

15:30–15:50 Teruaki Kitano (Soka University) and Masaaki Suzuki (Akita University)
  Twisted Alexander polynomial and surjective homomorphisms between knot groups

16:05–16:25 Yang, Guoqiu (Harbin Institute of Technology)
  On relative Heegaard genus

16:35–16:55 Hiroshi Goda (Tokyo University of Agriculture and Technology)
  Lefschetz zeta function and some flows associated with circle valued Morse maps on 3-manifolds
  (Joint work with Hiroshi Matsuda and Andrei Pajitnov)

17:10–17:30 Jung Hoon Lee (Konkuk University)
  Stabilizing Heegaard splittings of composite tunnel number two knots

17:40–18:00 Sang Yop Lee (Seoul National University)
  Boundary-reducing and toroidal Dehn fillings

18:10–18:30 Yin, Xunbo (Harbin Institute of Technology)
  On surface of bilongitudinal

ROOM 3   [Taizo Kanenobu]

15:00–15:20 Won Taek Song (ICU)
  The monoid of singular braids is linear

15:30–15:50 Jee Hyoun Kim (KAIST)
  When do graph braid groups become right-angled Artin group?

16:05–16:25 Reiko Shinjyo (Osaka City University)
  An infinite sequence of non-conjugate braids of even braid index

16:35–16:55 Ryosuke Yamamoto (Osaka City University)
  A complexity of open book decompositions and the arc complex
  (Joint work with Toshio Saito)

17:10–17:30 Bao, Zhiqiang (Peking University)
  Manifolds associated with Z_2 colored graphs

17:40–18:00 Gao, Hongzhu (Beijing Normal University)
  The minimal genus problem in rational surfaces

7 February WEDNESDAY

10:00–10:50 Wang, Shicheng (Peking University)   [Makoto Sakuma]
  Solenoids in Topology and in Dynamics

11:00–11:50 Taehee Kim (Konkuk University)   [Taizo Kanenobu]
  Twisted Alexander invariants and low-dimensional topology

12:00–12:50 Yasuyuki Miyazawa (Yamaguchi University)   [Kouki Taniyama]
  Virtual links and a multi-variable polynomial invariant

Excursion

8 February THURSDAY

10:00–10:50 Jun Murakami (Waseda University)　　[Rui Feng Qiu]
　　　On the colored Alexander polynomials

11:00–11:50 Zheng, Hao (Zhongshan University)　　[Gyo Taek Jin]
　　　Colored HOMFLY polynomial of torus knots and links

12:00–12:50 Ki Hyoung Ko (KAIST)　　[Akio Kawauchi]
　　　A polynomial-time solution to the reducibility problem

Lunch

ROOM 1　[Gyo Taek Jin]

15:00–15:20 Zhang, Weiping (Nankai University)
　　　On the analytic interpretation of the Alexander polynomial

15:30–15:50 Teruhisa Kadokami (Osaka CIty University)
　　　Seifert surgery along a knot whose Alexander polynomial is of degree two

16:05–16:25 Naoko Kamada (Osaka City University)
　　　On invariants of twisted links

16:35–16:55 Yasushi Takeda (Kyushu University)
　　　Crossing number and the braid index for a virtual link

17:05–17:25 Atsushi Ishii (Osaka University)
　　　The pole diagram and the Miyazawa polynomial

ROOM 2　[Rui Feng Qiu]

15:00–15:20 Kazuhiro Ichihara (Osaka Sangyo University)
　　　Hyperbolic volumes and pants distances for two-bridge knots

15:30–15:50 Li, Youlin (Peking University)
　　　1-dominations between Montesinos knots

16:05–16:25 KIMURA Yasto (Tokyo University)
　　　Topological characterization of Second Cohomology of Knot Quandle

16:35–16:55 Sang Youl Lee (Pusan National University)
　　　On a construction of invariants of surface links in 4-space

17:05–17:25 Shin Satoh (Kobe University)
　　　On the sheet numbers of surface-knots

ROOM 3 [Akio Kawauchi]

15:00–15:20 Eon-Kyung Lee (Sejong University)
　　　Quasi-flatness of abelian subgroups of Garside groups

15:30–15:50 Byung Hee An (KAIST)
　　　Representations of braid groups on surfaces

16:05–16:25 Yang, Zhiqing (Dalian University of Technology)
　　　On unknotting number of connected sum of n identical knots

16:35–16:55 Tomomi Kawamura (Aoyama Gakuin University)
　　　An estimate of the Rasmussen invariant for links

17:05–17:25 Mikami Hirasawa (Nagoya Institute of Technology)
　　　When does a satellite knot fiber ?
　　　(Joint work with K. Murasugi and D. Silver)

Farewell Party