

**Hiroshima Topology Conference**  
**Celebrating Prof Takao Matumoto's 60th birthday**  
February 17 - February 20, 2006  
at Hiroshima University, Hiroshima Japan

URL : <http://www.math.sci.hiroshima-u.ac.jp/top/conf/htop2006/htop2006E.html>

Program

**February 17 (Fri.)**

15 : 00 – 15 : 30 Shin Satoh (Chiba University)

Disk presentations of surface-knots

15 : 30 – 16 : 00 Motoo Tange (Kyoto University)

Ozsváth Szabó's correction term and lens surgery

16 : 20 – 16 : 50 Kenichi Fujiwara (Tokyo Institute of Technology)

Refined Kirby calculus for rational homology 3-spheres of prime orders

16 : 50 – 17 : 20 Yuichi Yamada (University of Electro-Communications)

Lens surgery, blow-ups and 4-dimensional manifolds

**February 18 (Sat.)**

9 : 30 – 10 : 10 Ronald J. Stern (University of California, Irvine (USA))

From low dimensional topology to the triangulation of high dimensional manifolds

10 : 30 – 11 : 10 Soren Illman (University of Helsinki (Finland))

Actions of profinite groups and equivariant singular homology

11 : 30 – 12 : 00 Antonio Hernandez-Barrera (DeVry University (USA))

On some computational and combinatorial problems with point configurations

13 : 30 – 14 : 00 Yusuke Kawamoto (National Defense Academy)

Higher homotopy commutativity of Hopf spaces (joint work with Yutaka Hemmi (Kochi University))

14 : 00 – 14 : 30 Antonio Regidor-Garcia (Hiroshima University)

Lusternik-Schnirelmann  $\pi_1$ -categories

14 : 50 – 15 : 20 David Futer (Michigan State University (USA)) and

Francois Gueritaud (University of South California (USA))

Angle structures and hyperbolic structures on some cusped 3-manifolds

15 : 20 – 15 : 50 Ken Shackleton (Osaka University, JSPS)

Computing distances in the curve complex

16 : 20 – 17 : 00 Seiichi Kamada and Takao Matumoto (Hiroshima University)

Chart descriptions of surfaces in 4-space and their deformation

## February 19 (Sun.)

9 : 30 – 10 : 10 Mikio Furuta (University of Tokyo)  
The Pontrjagin-Thom construction and gauge theory

10 : 30 – 11 : 10 Akio Kawauchi (Osaka City University)  
Surface-link groups

11 : 30 – 12 : 00 Osamu Saeki (Kyushu University)  
Singular fibers of differentiable maps and characteristic classes of surface bundles

13 : 30 – 14 : 00 Nobuhiro Nakamura (RIMS, Kyoto University)  
Unsmoothable group actions on elliptic surfaces

14 : 00 – 14 : 30 Hirofumi Sasahira (University of Tokyo)  
Spin structures on instanton moduli spaces

14 : 50 – 15 : 20 Yoshio Matsushita (Tokai University)  
Survey of charts with 9 white vertices by a computer

15 : 20 – 15 : 50 Teruo Nagase (Tokai University) and Akiko Shima (Tokai University)  
Charts with at most one crossing

16 : 20 – 16 : 50 Yasushi Takeda (Kyushu University)  
Surface knots and their generic planar projections

16 : 50 – 17 : 20 Kokoro Tanaka (University of Tokyo)  
A canonical form for braid systems of surface braids

## February 20 (Mon.)

9 : 30 – 10 : 00 Akira Yasuhara (Tokyo Gakugei University)  
Self delta-equivalence of cobordant links (joint work with Yasutaka Nakanishi (Kobe University) and Tetsuo Shibuya (Osaka Institute of Technology))

10 : 00 – 10 : 30 Hiroaki Kuboi (Saitama University)  
Classification of alternating links with tunnel number one

10 : 50 – 11 : 20 Tomomi Kawamura (Aoyama Gakuin University)  
Various Bennequin inequalities on knot concordance invariants

11 : 20 – 11 : 50 Kentaro Saji (Hokkaido University)  
Singularities of smooth maps with patterns

---

**Banquet Information** A banquet celebrating Prof Takao Matumoto's 60th birthday will take place at the restaurant 'La Bohème' in the Faculty Club of Hiroshima University from 18:00 to 20:00 February 18 (Saturday). Participants of the conference who would like to participate the banquet should contact with

Seiichi Kamada <kamada@math.sci.hiroshima-u.ac.jp>  
to make a reservation by January 31, 2006. The fee is 6,000 JPY. (If you would like to join us for a plan to give a memorial gift to Takao, then contribute 2,000 JPY additionally.)