

# Four Dimensional Topology

February 5 – February 7, 2008  
Hiroshima University

## Program

### February 5 (Tue)

14 : 00–14 : 40 Takashi Nishimura (Yokohama National University)  
Singularity theory and fundamental moves on surface-link diagrams, I

14 : 50–15 : 30 Takashi Nishimura (Yokohama National University)  
Singularity theory and fundamental moves on surface-link diagrams, II

15 : 50–16 : 30 Boldizsar Kalmar (Kyushu University)  
Cobordisms of singular maps from 4-manifolds

16 : 40–17 : 20 Shin Satoh (Kobe University)  
No knotted projective plane has triple point number two

### February 6 (Wed)

10 : 00–10 : 50 Ronald Fintushel ( Michigan State University )  
Reverse engineering

11 : 00–11 : 40 Tsuyoshi Kato (Kyoto University)  
Yang-Mills gauge theory over Casson handles and its application

13 : 10–13 : 50 Akio Kawauchi (Osaka City University)  
Alternation number and link concordance

14 : 00–14 : 40 Susumu Hirose (Saga University)  
Periodic maps on surfaces and examples of Lefschetz fibrations

14 : 50–15 : 30 Toshifumi Tanaka (OCAMI, Osaka City University)  
Knots and embedded minimal surfaces in 4-space

15 : 50–16 : 30 Kokoro Tanaka (Gakushuin University)  
A categorification of the one-variable Kamada-Miyazawa polynomial  
(joint work with Atsushi Ishii(RIMS, Kyoto University))

16 : 40–17 : 20 Akiko Shima (Tokai University)  
Charts with two crossings  
(joint work with Teruo Nagase (Tokai University))

17 : 30–18 : 10 Akira Yasuhara (Tokyo Gakugei University)  
Classification of string links up to self delta-moves and concordance

**February 7 (Thu)**

10 : 00–10 : 40 Takao Matumoto (Hiroshima University)

On the smooth unknotting conjecture in dimension four

10 : 50–11 : 30 Yuichi Yamada (Univ. of Electro-Communications)

Torus knots, generalized rational blow-down, and lens space surgery of Type 7, 8

11 : 40–12 : 20 Masaaki Ue (Kyoto University)

The Ozsvath-Szabo and the Neumann-Siebenmann invariants for certain plumbed 3-manifolds

Organizers:

Takao Matumoto (Hiroshima University) matumoto(\*)math.sci.hiroshima-u.ac.jp,

Seiichi Kamada (Hiroshima University) kamada(\*)math.sci.hiroshima-u.ac.jp (\*)⇒@