

## Singularity Theory Working Days in Hakodate

Organizers. SAITO Sachiko (Hokkaido Univ. of Education at Hakodate), KOIKE Satoshi (Hyogo Univ. of Teacher Education), IZUMIYA Shyuichi (Hokkaido Univ.), OHMOTO Toru (Hokkaido Univ.), ISHIKAWA Goo (Hokkaido Univ.).

Mathematical Society of Japan.

21st Century COE Program "Mathematics of Nonlinear Structure via Singularity".

21st Century COE Program "Topological Science and Technology".

**Dates.** Wednesday, October 27 - Saturday, October 30, 2004

**Places.** Sanrifure Hakodate 2-14, Ohmori-cho, Hakodate, Japan

### Program

October 27 (Wed.)

9:15 – 10:00 KOIKE Satoshi (Hyogo University of Teacher Education): Equivalence relations for real analytic functions (Joint work with Adam Parusiński)

10:15 – 11:00 Karim Bekka (IMR, Universite de Rennes1): On algebraic characterization of stratified sets

11:20 – 12:05 Martijn van Manen (Hokkaido University): The geometry of conflict sets

14:30 – 15:15 OHSUMI Mariko (Nihon University): Whitney's umbrellas in stable perturbations † of a map germ  $(\mathbf{R}^n, 0) \rightarrow (\mathbf{R}^{2n-1}, 0)$ .

15:35 – 16:20 SAITO Sachiko (Hokkaido University of Education) : Real K3 surfaces with non-symplectic holomorphic involutions

16:50 –        unscheduled talks, problem session or debate.

October 28 (Thu.)

9:15 – 10:00 SAEKI Osamu (Kyusyu University): Universal complex of singular fibers and cobordism of singular maps

10:15 – 11:00 YAMAMOTO Takahiro (Hokkaido University): Two-colored universal complex of fibers of stable maps and Euler number

11:20 – 12:05 NAKAMURA Gen (Hokkaido University): Introduction to the problem of singularities around elastic equations

14:30 – 15:15 TAKEDA Yasushi(Kyushu University): Canceling branch points and cusps on projections of knotted surfaces in 4-space.

15:35 – 16:20 KOBAYASHI Mahito (Akita University): Frames and planar images of the sphere bundles over  $S^1$

18:00 – Party.

October 29 (Fri.)

9:15 – 10:00 ISHIKAWA Goo (Hokkaido University): A very easy introduction to amoebas and tropical geometry(A report on the "e-mail seminar")

10:15 – 11:00 SIINO Masaru (Tokyo Institute of Technology): Black hole topology and classification of Maxwell set.

11:20 – 12:05 TANDA Satoshi (Hokkaido University): Topological Science and Technology

14:30 – 15:15 IZUMI Shuzo (Kinki University): Holonomic system with constant coefficients and interpolation.

15:35 – 16:20 TAKEUCHI Kiyoshi (Tsukuba University): Geometry of complex links and perverse sheaves

October 30 (Sat.)

9:15 – 10:00 NISHIMURA Takashi (Yokohama National University): Generic projections are good in all dimensions

10:10 – 10:55 ADACHI Jiro (Hokkaido University): Classification of horizontal loops in the standard Engel space

11:10 – 11:55 SAJI Kentaro (Hiroshima University): Circular surfaces

Afternoon An optional session on "the future of singularity theory"

Web-page: [http://coe.math.sci.hokudai.ac.jp/sympo/041027/index\\_en.html](http://coe.math.sci.hokudai.ac.jp/sympo/041027/index_en.html)

(18 October 2004)