PROGRAM OF
BRATISLAVA TOPOLOGY SYMPOSIUM
“Group Actions and Homogeneous Spaces”
September 7-11, 2009
Comenius University,
Faculty of Mathematics, Physics, and Informatics,
Bratislava, Slovakia

MONDAY (September 7, 2009)
10:00-10:15 opening
Chair: Mikiya Masuda
10:15-11:15 Peter Teichner, Field theory and algebraic topology
11:30-12:30 Matthias Kreck, Simply connected asymmetric manifolds
Chair: Peter Teichner
14:10-14:40 Sören Illman, Equivariant Alexander-Spanier cohomology for non-Lie group actions
14:55-15:25 Kojun Abe, On the first homology of the automorphism groups of G-manifolds
15:40-16:10 Claude Emilie Hayat-Legrand, Generalized Borsuk-Ulam theorem
16:25-16:55 Mahender Singh, Parametrized Borsuk-Ulam problem for projective space bundles
TUESDAY (September 8, 2009)

Chair: Matthias Kreck

9:30-10:30 Mikiya Masuda, Symmetry of torus manifolds
10:45-11:45 Taras Panov, Torus actions and complex cobordism
11:55-12:25 Seonjeong Park, Classification of quasitoric manifolds of $b_2 = 2$

12:35-13:10 Parameswaran Sankaran, Maps between Grassmann manifolds

Chair: Taras Panov

14:40-15:10 Masaharu Morimoto, On The Smith Equivalent Representations of Oliver Groups
15:25-15:55 Toshio Sumi, Smith equivalent modules and the weak gap condition
16:05-16:35 Shintaro Kuroki, On projective bundles over small covers
**WEDNESDAY** (September 9, 2009)

**Chair:** Dariusz Wilczynski

9:30-10:00 Waclaw Marzantowicz, *Homotopy periodic points theory of periodic homeomorphisms of surfaces*

10:15-10:45 Dong Youp Suh, *Properties of Bott manifold and cohomological rigidity*

11:00-11:30 Suyoung Choi, *Real Bott manifolds and acyclic digraphs*

11:45-12:15 Yasuhiko Kitada, *On the first Pontrjagin class of homotopy complex projective spaces*

15:30-16:30 guided tour in the center of Bratislava - Primaciálny palác = Primatial Palace and its neighbourhood

18:00 conference dinner
THURSDAY (September 10, 2009)
Chair: Parameswaran Sankaran
9:30-10:30 Bogusław Hajduk, Symplectomorphisms, diffeomorphisms and circle actions on symplectic manifolds
10:45-11:45 Aleksy Tralle, Topology of the groups of Hamiltonian symplectomorphisms of compact homogeneous spaces
12:00-12:30 Július Korbaš, A new bound for the cup-length of zero-cobordant manifolds
Chair: Boguslaw Hajduk
14:30-15:00 Ikumitsu Nagasaki, Isovariant maps from free G-manifolds to representation spheres
15:15-15:45 Masaki Nakagawa, On the signature of Grassmannians via Schubert calculus
16:15-16:45 Dariusz Wilczynski, Quaternionic toric manifolds
FRIDAY (September 11, 2009)
Chair: Aleksy Tralle
9:30-10:30 Tibor Macko, Surgery classification of lens spaces
10:50-11:20 Sašo Strle, Surgeries on knots bounding definite 4-manifolds
11:35-12:05 Martin Niepel, Symplectic 4-manifolds with positive signature
12:20-13:00 Peter Zvengrowski, The vector field problem for projective Stiefel manifolds / closing of the conference