

School on Singularity Theory  
July 16-21 2012

**12th International Workshop on Real and Complex Singularities**  
**Celebrating the 60th birthday of Shyuichi Izumiya | July 22-27 2012**

**This is to certify that**

**Anne Pichon**

**presented the Mini-Course, “*Bilipschitz geometry of complex singularities*”,  
at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held  
in São Carlos, Brazil, from July 22-27, 2012.**

**São Carlos, July 27, 2012**



Victor Hugo Jorge Pérez  
Conference Organizer

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**Toru Ohmoto**

**presented the Mini-Course, “*Singularities and characteristic classes for differentiable maps*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Abramo Hefez**

**presented the talk, “*On the topology of the polar curve*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Alexandre Fernandes**

**presented the talk, “*On choking horns in complex algebraic singularities*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Aryampilly Jayanthan Parameswaran**

**presented the talk, “*On the monodromy of regular maps from an affine surface to a curve*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Carles Bivià-Ausina**

**presented the talk, “*Lojasiewicz exponents and its relation with other analytic invariants*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Goo Ishikawa**

**presented the talk, “*Shyuichi Izumiya's mathematical works*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Javier Fernandez de Bobadilla**

**presented the talk, “*Nash conjecture on arc spaces*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Jorge Vitório Pereira**

**presented the talk, “*Rational maps preserving webs*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Jose Seade Kuri**

**presented the talk, “*On the topology of complete intersection germs on singular varieties*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Juan José Nuño-Ballesteros**

**presented the talk, “*Slicing corank 1 map germs from  $C2$  to  $C3$* ”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Marcelo José Saia**

**presented the talk, “*Multiplicities of modules and Newton polyhedra*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Masaaki Umehara**

**presented the talk, “*Differential geometry of surfaces with singularities*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Miriam Manoel**

**presented the talk, “*Invariant theory and relative symmetries of mappings*”,  
at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held  
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**Patrick Popescu-Pampu**

**presented the talk, “*The kite of a plane curve singularity*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Roberto Callejas-Bedregal**

**presented the talk, “*Lê cycles and Milnor classes*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Shihoko Ishii**

**presented the talk, “*Nash problem, arc spaces and applications*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Stanislaw Janeczko**

**presented the talk, “*Gravitational lensing and crystalline caustics*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Terence Gaffney**

**presented the talk, “*An Infinitesimal Approach to Bi-Lipschitz Stratifications*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Andras Szucs**

**presented the talk, “*Realizing homology classes by maps with mild singularities*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Bruna Oréface Okamoto**

**presented the talk, “*The vanishing Euler characteristic of a determinantal variety germ and the Milnor number of a function*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Catarina Mendes de Jesus**

**presented the talk, “*Global theorem of Quine for maps between surfaces*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Daniel Lehmann**

**presented the talk, “*Ordinary algebraic curves*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**David J. A. Trotman**

**presented the talk, “*On the local geometry of definable stratified sets*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Farid Tari**

**presented the talk, “*On the geometry of the cross-cap in the Minkowski 3-space*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Federico Sanchez Bringas**

**presented the talk, “*Isometric reduction of the codimension*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**HANDAN YILDIRIM**

**presented the talk, “*One-parameter families of extrinsic differential geometries on hypersurfaces in hyperbolic space*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Haydee Aguilar-Cabrera**

**presented the talk, “*Seifert manifolds as links of real singularities*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Helge Möller Pedersen**

**presented the talk, “*Classification of metrically conical rational singularities*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Imran Ahmed**

**presented the talk, “*Invariants of Topological Relative Right Equivalences*”,  
at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held  
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**Isabel S. Labouriau**

**presented the talk, “*Fast and slow dynamics in nerve impulse*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Jean-Jacques Risler**

**presented the talk, “*On the total curvature of the real Amoeba*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Jiro Adachi**

**presented the talk, “*On contact round surgery*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Jorge Sotomayor**

**presented the talk, “*Singularities of Axial Curvature Configurations on Surfaces in  $R^4$  and their Bifurcations*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Jose Basto-Goncalves**

**presented the talk, “*Generalizations of holomorphic surfaces in 4-space*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Juan Antonio Moya Pérez**

**presented the talk, “*Topological triviality of families of map germs from  $R^2$  to  $R^2$* ”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Kentaro Saji**

**presented the talk, “*Singularities of surfaces swept by constant curvature curves*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**León Kushner Schnur**

**presented the talk, “*Discriminants of quartics and quintics with Maple*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Leonardo Meireles Câmara**

**presented the talk, “*Planar quasi-homogeneous singularities*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Liang Chen**

**presented the talk, “*On generic surfaces in Anti de Sitter 3-space*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Mahito Kobayashi**

**presented the talk, “*On the transverse structure to the critical locus of a planar stable map*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Marcela Silva**

**presented the talk, “*Bounds for the multiplicity of the special \_ber of blowups of modules*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Mark Roberts**

**presented the talk, “*Singularities of spacecraft attitude control problems*”,  
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**Masaki Kasedou**

**presented the talk, “*Asymptotic directions on spacelike surface of codimension 3 in de Sitter space*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Miguel Fernandez Duque**

**presented the talk, “*Elimination of resonances in codimension one foliations by blow-ups*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Minoru Yamamoto**

**presented the talk, “*Sphere eversion and their plane images (new method)*”,  
at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held  
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**Pedro de M. Rios**

**presented the talk, “*The Wigner caustic on shell and singularities of odd functions*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Peter Giblin**

**presented the talk, “*Affine equidistants and their evolution*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Raúl Oset Sinha**

**presented the talk, “*On the geometry of singular surfaces*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Saurabh Trivedi**

**presented the talk, “*Stratified transversality of holomorphic maps*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Sergey Agafonov**

**presented the talk, “*Singular at webs and Frobenius manifolds*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Takahiro Yamamoto**

**presented the talk, “*Topology of the set of singular values of stable maps between surfaces*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Takashi Nishimura**

**presented the talk, “*Whitney umbrellas and swallowtails*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Takashi Sano**

**presented the talk, “*Affine differential geometry of plane curves*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

**São Carlos, July 27, 2012**



Victor Hugo Jorge Pérez  
Conference Organizer

School on Singularity Theory  
July 16-21 2012

**12th International Workshop on Real and Complex Singularities**  
**Celebrating the 60th birthday of Shyuichi Izumiya | July 22-27 2012**

**This is to certify that**

**Tomonori Fukunaga**

**presented the talk, “*The warping degree of a nanoword*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

**São Carlos, July 27, 2012**



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**Celebrating the 60th birthday of Shyuichi Izumiya | July 22-27 2012**

**This is to certify that**

**Toshizumi Fukui**

**presented the talk, “*Fronts of Whiney umbrella*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Vincent Grandjean**

**presented the talk, “*The exponential map at a cuspidal singularity*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Walter D. Neumann**

**presented the talk, “*Lipschitz geometry of complex singularities in higher dimensions*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

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**Zbigniew Jelonek**

**presented the talk, “*Reaching generalized critical values of a polynomial*”, at the 12<sup>th</sup> International Workshop on Real and Complex Singularities, held in São Carlos, Brazil, from July 22-27, 2012.**

**São Carlos, July 27, 2012**



Victor Hugo Jorge Pérez  
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