

CURRICULUM VITAE

ANDRÁS NÉMETHI

Educational History

<u>Degrees</u>	<u>Institution</u>	<u>Dates Awarded</u>
BS	University of Bucharest, Romania	June 1983
MS	University of Bucharest, Romania	June 1984
Doctor in Math.	Institute of Math. of Romanian Academy Bucharest, Romania	July 1990
PhD	The Ohio State University Columbus, Ohio, USA	August 1991
ScD	Hungarian Academy of Sciences	2001
Habilitation	Eötvös University, Budapest, Hungary	2008

Professional Experience

<u>Institution</u>	<u>Dates</u>
Nat. Inst. for Sc. and Tech. Research, Bucharest (Researcher)	1985 – 1990
OSU, Columbus, Ohio (Instructor)	1991 – 1995
OSU, Columbus, Ohio (Assistant Professor)	1995 – 1998
OSU, Columbus, Ohio (Associate Professor)	1998 – 2002
OSU, Columbus, Ohio (Professor)	2002 – 2007
Rényi Institute of Math., Budapest, Hungary	1999 – 2001
Rényi Institute of Math., Budapest, Hungary	2004–
Eötvös University, Budapest, Hungary	2008–

Visiting Positions

Math. Inst. of the Hungarian Academy of Sciences	March 1990–May, 1990
Universities of Utrecht and Nijmegen, Netherlands	Sept. 1990–Dec. 1990
University of Toronto, Canada	July 01–31, 1991
MSRI, Berkeley	May 01–31, 1993
University of Nice, France	July 01–31, 1993
University of Nijmegen, The Netherlands	Sept. 1993–June, 1994
École Polytechnique, Palaiseau, France	Oct. 01–Dec. 31, 1996
University of Nice, France	June 15–July 15, 1997
University of Nantes, France	June 01–30, 1998
University of Bordeaux, France	Nov 01–30, 1999
Rényi Institute of Math., Budapest, Hungary	July 1999- June 2000
University of Hannover, Germany	Oct. 01–30, 2005
University of Nice, France	May 01–30, 2007
University Méditerranée, Marseille, France	Sept. 01–30, 2007

Research Areas

Singularity theory, algebraic geometry and (low-dimensional) topology.

Personal

Born May 29, 1959, in Romania.

US citizen.

Married, father of three children.

Grants, memberships in research projects

International Grants.

- National Science Foundation Grant (USA) 1992–1994, 1996–1998, 2000–2003, 2003–2007.
- Netherlands Organization for the Advancement of Scientific Research Grant 1993–1994.
- Ohio State University Seed Grant (Columbus, USA) 1995–1996.
- National Security Agency Grant (USA) 2000–2001.
- PI of a Marie Curie Intra European Fellowship 2004–2006.
- Team member, Marie Curie Host Fellowship for Transfer of Knowledge, Rényi Institute, 2004–2008.
- Host Scientist at Rényi Institute of two Marie Curie Intra European Fellowships, A. Kuronya as PI, 2006–2007; and R. Rimányi as PI, 2009–2010.
- Hungarian Science and Technology Foundation Grant, bilateral scientific cooperations supported by Hungarian and a foreign Ministry of Education (TÉT); 3 independent grants with Austria, France and Spain, 2007–2009.
- Team member of the Spanish research grant MTM2010-21740-C02-01 of Ministerio de Ciencia e Investigación (Singularities in algebra, cryptography, geometry and topology, PI A. Melle Hernández), 2011–2013.
- Co-investigator in two Japanese research grants, Grants-in-Aid for Scientific Research (C), Japan Society for the Promotion of Science; PI: T. Okuma from Yamagata Univ. Japan; Co-investigators: A. Némethi (Rényi) and T. Tomaru (Gunma Univ. Japan): Grant No. 20540060 2008–2011, and Grant No. 23540068 2011–2014.
- PI of the JSPS Invitation Fellowship Program for Research in Japan, ID No. S-10020, Japan Society for the Promotion of Science, September 2010. (Host researcher: T. Okuma, Yamagata University.)
- ‘International partner’ of the Research Grant of University of Leuven OT/11/069 (PI: W. Veys), 2011–2015.

Hungarian grants of Hungarian National Science Foundation (OTKA)

- PI in 2007–2011 and 2012–2016.
- Since 2003 co-investigator in 4 different research projects in algebraic geometry or differentiable topology.

Prizes

Rényi Prize of the Rényi Institute of Mathematics, 2007.
Prize of the Hungarian Academy of Sciences, 2010.

Member of the Editorial Board

Journal of Singularities (e-journal),
Studia Sc. Math. Hungarica,
Periodica Math. Hungarica,
Studia Univ. Babeş-Bolyai, Math.

Member of OTKA Board

Elected for the period Febr. 01, 2012 — Jan. 31, 2015.

Organizational activities

- Member of the Organizing Committee of the Summer school on Lie algebras, Iasi, Romania, 1988 (organized by the Institute of the Romanian Academy).
- Member of the Organizing Committee of the summer school on Lie groups, Mangalia, Romania, 1989 (organized by the Institute of the Romanian Academy).
- Member of the Organizing Committee of the Workshop on Topology of hypersurface singularities, Cluj–Napoca, Romania, 1989 (organized by the Institute of the Romanian Academy and University of Cluj–Napoca).
- Organizer of the International Workshop on characteristic classes, Sovata, Romania, 1994 (supported by the Soros Foundation)
- Member of the Organizing Committee of the International Summer school on Algebraic Geometry, Eger, Hungary, 1996 (as a satellite of the European Mathematical Congress).
- Member of the Organizing Committee of the International Summer school on Low-dimensional Geometry, Hungary, 1998.
- The organizer of the ‘Conference on Singularity Theory’, Ohio State University, 1998.
- Co-organizer of the AMS Special Session ‘Algebraic Geometry and Singularity Theory’, University of Notre Dame, 2000.
- Member of the Organizing Committee of the AMS meeting 2001 September, organized by the Ohio State University, Dept. of Mathematics.
- Member of the Organizing Committee of the international program ‘Higher dimensional varieties and rational points’ at Budapest, Hungary, 2001.
- Organizer of the ‘Spanish-Hungarian’ Workshop on Singularities, Budapest, Hungary, 2005 Summer.
- Organizer of the Summer School ‘Characteristic classes of singular varieties’, Budapest, Hungary, 2006 Summer.
- Organizer of the Conference ‘Deformation of surfaces’, Budapest, Hungary, 2008 October.
- Co-organizer (with D. van Straten and V. Vasiliev) of the ‘Singularities’ Conference at Oberwolfach Math. Inst., Germany; Sept. 2009.
- Organizer of the ‘Workshop on Quivers’, Rényi Institute, Budapest, Hungary, 2009 September.
- Organizer of the one-day meeting ‘New directions in Geometry’, Budapest, Math. Section of the Hungarian Academy of Sciences, 2010 May.
- Coorganizer of the ‘Non–Euclidean Geometry and its applications — 7-th Bolyai-Gauss-Lobachevsky Conference’ Cluj–Napoca, Romania, July 2010.
- Member of the Scientific Committee of the ‘5th World Conference on 21st Century Mathematics 2011’, February 9-13, 2011, Lahore, Pakistan.
- Coorganizer (with J. Bryan, D. Maulik, J. Schürmann, B. Szendrői and Á. Szilárd) of ‘Motivic Donaldson-Thomas theory and singularity theory’ May 7 to May 11, 2012, Rényi Inst., Budapest; sponsored by American Inst. of Math. and National Sc. Foundation (USA).
- Co-organizer (with D. van Straten and V. Vasiliev) of the ‘Singularities’ Conference at Oberwolfach Math. Inst., Germany; Sept. 2012.

Advisor of PhD students

Á. Szilárd — graduated at Ohio State University, USA, 1999,
R. Mendris — graduated at Ohio State University, USA, 2003,
I. Sigray — graduated at Eötvös University (ELTE), Budapest, 2008,
in present: T. László, B. Sigurdsson, J. Bodnár, G. Pintér, Á. Gyenge.

Advisor of MS students

M. Juhász — Eötvös University (ELTE), Budapest, 2009,
G. Pintér — Eötvös University (ELTE), Budapest, 2010.
B. Sigurdsson — Central European University, Budapest, 2010.

Invited speaker at the following conferences

- [1] Summer school on Lie algebras, Iași, Romania, 1988.
- [2] Conference on Algebraic Geometry, Bucharest, Romania, 1988.
- [3] Summer school on Lie groups, Mangalia, Romania, 1989.
- [4] Workshop on Topology of hypersurface singularities, Cluj–Napoca, Romania, 1989 (series of lectures).
- [5] Workshop on Singularities, Nijmegen, The Netherlands, November, 1990.
- [6] JAMI Algebraic and Complex Geometry Conference, The John Hopkins University, Baltimore, USA, April, 1991.
- [7] Conference on Singularity Theory, Oberwolfach, Germany, June, 1992.
- [8] Conference on Singularity Theory, S. Banach Center, Warsaw, Poland, September, 1993.
- [9] National Conference of Mathematics, Leiden, The Netherlands, April, 1994.
- [10] Conference on Singularity Theory, Konstanz, Germany, July, 1994.
- [11] Summer Research Institute in Algebraic Geometry, organized by AMS at the University of California, Santa Cruz, July 9–29, 1995.
- [12] Workshop on Singularities, Oberwolfach, Germany, July, 1996.
- [13] Plenary lecture at the C.T.C. Wall’s 60th birthday meeting on Real and Complex Singularities, Liverpool, England, August 1996.
- [14] Five plenary lectures during the EMS–Summer School, Eger (Hungary), July–August 1996.
- [15] Workshop on Singularities, Angers, France, December 1996 (two lectures).
- [16] Conference on Geometry and Complexity (during the Singularity Theory and Geometry program, Toronto, January–June 1997), Fields Institute, Toronto, May 1997.
- [17] Conference on “The fundamental group in geometry”, Oberwolfach, Germany, May 1998.
- [18] Five plenary lectures during the Summer School “*Low Dimensional Topology*”, August 2–15, 1998, Budapest, Hungary.
- [19] AMS Special Session on Singularities in Algebraic Geometry and Analytic Geometry, San Antonio, Texas, January 1999.
- [20] Conference on “Polynomial maps and Toric geometry”, Muenster, Germany, 2000 February.
- [21] Invited address at the AMS central section meeting, University of Notre Dame, 2000

April.

- [22] Conference in “Affine Algebraic Geometry”, Oberwolfach, Germany, May 2000.
- [23] Algebraic Geometry Conference (In Memory of Ruth Michler), Annapolis, October 2001.
- [24] Conference “Casson invariant: 17 years on”, UQAM Montréal, Canada, April 2002.
- [25] Plenary talk at the “7th International Workshop on Real and Complex Singularities”, ICMC-USP, São Carlos-SP, Brazil, August 2002.
- [26] Conference on “Fundamental Groups in Geometry”, Oberwolfach, Germany, September 2002.
- [27] AMS Special Session on Arrangements in Topology and Algebraic Geometry, Baton Rouge, Louisiana, March 2003.
- [28] AMS Special Session on Topological Aspects of Complex Singularities, New York, April 2003.
- [29] Workshop on Singularity Theory, ICMS, Edinburgh, May 2003.
- [30] Conference in “Low Dimensional Topology”, Rényi Institute, Budapest, Hungary, June 2003.
- [31] Singularity Conference, Oberwolfach, Germany, September 2003.
- [32] Workshop on Floer homology of 3-manifolds, Banff, Canada, November 2003.
- [33] Geometry/Topology of manifolds, McMaster University, Hamilton, Canada, May 2004.
- [34] CMI Summer School on Floer Homology, Gauge Theory and Low Dimensional Topology, Budapest June 2004.
- [35] Sao Carlos Workshop on Singularities (at CIRM Luminy), 2004, France.
- [36] Conference in Singularities, CIRM, Luminy, France, 2005 February.
- [37] Singularity Conference, University of Leuven, 2005.
- [38] Singularity conference and Summer School “Advances School and Workshop on Singularities in Geometry and Topology”, Trieste, Italy, 2005 Summer.
- [39] (“Spanish-Hungarian”) Workshop on Singularities, Budapest, Hungary, 2005 Summer.
- [40] Singularity Conference (B. Teissier is 60), Luminy, France, 2005.
- [41] Conference on “Knots, contact structures and foliations”, Budapest, Hungary, November 2005.
- [42] Workshop on “The Topology of Hyperkahler Manifolds”, Budapest, Hungary, Nov. 2005.
- [43] “Singularity Day at Luminy”, France, 2006 May.
- [44] Four plenary lecture at CIMPA School “New trends in singularity theory”, Madrid, 2006 August.
- [45] Singularity Conference, Oberwolfach, Germany, September 2006.
- [46] Five plenary advanced lecture courses at School on “The Geometry and Topology of Singularities”, Cuernavaca, Mexico, January 2007.
- [47] Workshop on “The Geometry and Topology of Singularities” (Lê Dũng Tráng is 60), Cuernavaca, Mexico, January 2007.
- [48] Journée de Géométrie Algébrique Nice-Gênes 2007, Nice, May 2007.
- [49] Geometry Days (J. Steenbrink is 60), Nijmegen, The Netherlands, May 2007.
- [50] Singularity Days, Nijmegen, The Netherlands, June 2007,
- [51] Singularity Conference, CTC Wall is 70, Liverpool, England, July 2007.
- [52] Five plenary advanced lecture courses at the School and Conference “Geometry and Topology of Singularities”, Angers, France, September 2007.
- [53] Conference on Affine Geometry, Number Theory and Singularities (in honor of Pierrette

Cassou-Noguès), Castro Urdiales, Spain, June 2008.

[54] Three plenary advanced lecture courses at the Conference “Geometry of Singularities and Manifolds”, Kusatsu, Japan, September 2008.

[55] Special plenary talk at the meeting of the Japan Mathematical Society, Tokyo, Japan, September 2008.

[56] Conference on “Différents points de vue sur les cycles évanescents”, Nice, France, November 2008.

[57] Topology of Algebraic Varieties, A Conference in Honor of the 60th Birthday of A. Libgober, Jaca, Spain, June 2009.

[58] Noncommutative Geometric Methods in Global Analysis, Conference in honor of Henri Moscovici, Hausdorff Center for Mathematics, University Bonn, Germany, July 2009.

[59] Singularities, Oberwolfach, Germany, 2009 September.

[60] ‘Geometry at Large’, Conference at Vienna, Austria, April 2010.

[61] ‘Second International Workshop on Zeta Functions in Algebra and Geometry’, Palma de Mallorca, Spain, May 2010.

[62] ‘Új irányzatok a geometriában’, meeting of the Hungarian Academy of Sciences, May 2010.

[63] Two plenary talks at the ‘Geometry Conference’, Yamagata University, Japan, September 2010.

[64] ‘Conference on Singularities, Geometry and Topology’ (S. Gusein-Zade’s 60th birthday meeting), El Escorial, Madrid, Spain, October 2010.

[65] Geometry Workshop in Honour of V. Brînzănescu, Bucharest, Romania, November 2010.

[66] Three lectures on Autumn School: ”Topology of Singularities”, Mainz, Germany, 2011 September.

[67] Informal talk, at the meeting ‘Algebraic versus Analytic Geometry’, Vienna, 2011 November.

Other invited talks

[1] University of Gdansk, Poland, August, 1989.

[2] Algebra seminar, Math. Inst. of the Hungarian Academy of Sciences, Budapest, Hungary, March, 1990.

[3] Singularity seminar, University of Utrecht, The Netherlands, November, 1990.

[4] Singularity seminar, University of Toronto, Canada, July, 1991 (a series of lectures).

[5] Singularity seminar, University of Toronto, Canada, November, 1991.

[6] Singularity seminar, University of Toronto, Canada, March, 1993.

[7] MSRI Berkeley, USA, May, 1993 (two lectures).

[8] Algebraic geometry seminar, University of Utah, Salt Lake City, USA, June, 1993.

[9] Algebraic geometry seminar, University of Nice, France, July, 1993.

[10] Geometry seminar, Eötvös Loránd University, Budapest, Hungary, September, 1993.

[11] Complex analysis seminar, University of Angers, France, March, 1994 (two lectures).

[12] Algebraic geometry seminar, University of Warwick, Great Britain, June, 1994.

[13] Colloquium Talk, Math. Institute, Bonn, Germany, June, 1994.

[14] Algebraic geometry seminar, University of Utah, Salt Lake City, USA, December, 1994.

[15] Colloquium Talk, University of Toronto, Canada, February, 1995.

- [16] Algebraic geometry seminar, Northeastern University, Boston, USA, April 1996.
- [17] Topology Seminar, Eötvös Loránd University, Budapest, Hungary, September 1996.
- [18] Colloquium Talk, Math. Inst. of the Hungarian Academy of Sciences, Budapest, Hungary, September 1996.
- [19] Colloquium Talk, Purdue University, West Lafayette, USA, March 1997.
- [20] Algebraic Geometry Seminar, University of Marseille, France, June 1997.
- [21] Singularity Seminar, University of Nice, France, June-July 1997 (four lectures for graduate students).
- [22] Algebraic Geometry and Algebraic Topology Seminar, University of Nantes, France, June 1998.
- [23] Algebraic Geometry Seminar, University of Chicago, USA, May 1999.
- [24] Geometry Seminar, University of Bordeaux, France, November 1999.
- [25] Singularity Seminar, University of Bordeaux, France, November 1999, (three talks).
- [26] National Geometry Seminar, Institute of Hungarian Academy of Science, Budapest, February 2000.
- [27] Algebraic Geometry Seminar, Institute of Hungarian Academy of Science, Budapest, Sept. 1999- March 2000 (at least ten talks).
- [28] Colloquium Talk, Institute of Hungarian Academy of Science, Budapest, March 2000.
- [29] Topology Seminar, Princeton University, Princeton, April, 2001.
- [30] Colloquium Talk, University of Notre Dame, November 2002.
- [31] Colloquium Talk, University of Illinois at Chicago, April 2003.
- [32] Geometry-Topology Seminar, University of Wisconsin, Madison, October 2003.
- [33] Colloquium Talk, University of North Carolina, Chapel Hill, January, 2004.
- [34] University of Michigan/Ohio State University Weekend Algebraic Geometry Seminar, March , 2004.
- [35] Seminar of Singularity Theory of Jussieu Institute (Paris 7), Paris, November 2004.
- [36] Seminar of Algebraic geometry of University of Utrecht, Utrecht December 2004.
- [37] Three invited talks at the Algebraic Geometry Seminar of University of Hannover, 2005 October.
- [38] “Kerékjártó Béla” Geometry Seminar, University of Szeged, November 2005.
- [39] Geometry Seminar, Babeş–Bolyai University, Cluj–Napoca, November 2006.
- [40] Singularity Seminar, University of Nice, May 2007.
- [41] Topology Seminar, Université de Provence, Marseille, France, September 2007.
- [42] Singularity Seminar, two extended lectures, Université de la Méditerranée, Luminy (Marseille), France, September 2007.
- [43] Talk at University of Kyoto, Japan, September, 2008.
- [44] Singularity Seminar (Oka’s seminar), University of Tokyo, Japan, September 2008.
- [45] A short talk at the meeting “About the Spidron in the language of Science and Art”, Rényi institute, Budapest, November 2008.
- [46] Geometry Seminar, Madrid, Spain, December 2009.
- [47] Singularity Seminar (Oka’s seminar), University of Tokyo, Japan, September 2010.

Publications of A. Némethi

Book

- [1] Milnor fiber boundary of a non-isolated surface singularity, (joint book with Á. Szilárd), *Lecture Notes in Math.* **2037**, Springer 2012.

Edited books

- [1] Proceedings of the Deformation Theory Conference, Budapest, 2008; (coeditor Á. Szilárd), Bolyai Mathematical Series, 2012 (in print).
- [2] Singularities. Abstracts from the workshop held September 20-26, 2009; Organized by A. Némethi, D. van Straten and V.A. Vassiliev; Oberwolfach Reports. Vol. 6, no. 3. Oberwolfach Rep. 6 (2009), no. 3, 2405-2469.

Articles in journals and proceedings, book chapters

- [1] Asupra geometriilor euclidiană și neeuclidiene plane, *St. Cerc. Mat.*, **Tom. 35, Nr.1**, 1983.
- [2] The link of the sum of the holomorphic functions, *Proc. of the National Conference*, Tîrgoviște, Romania, 1986.
- [3] Théorie de Lefschetz pour les variétés algébriques affines, *C. R. Acad. Sc. Paris*, t.303. Serie I., **Nr. 12**, 1986.
- [4] On the fundamental group of the complement of certain plane curves, *Math. Proc. Cambridge Phil. Soc.*, **Vol. 102**, 3, 1987.
- [5] Lefschetz Theory for Complex Affine Varieties, *Rev. Roumaine Math. Pures Appl.*, **33**, 3, 233-250, 1988.
- [6] Shape theory and (connective) K-theory, (joint paper with M. Dădărlat), *J. Operator Theory*, **23**, 207-291, 1990.
- [7] On the bifurcation set of a polynomial function and Newton boundary, (joint paper with A. Zaharia), *Publ. RIMS. Kyoto Univ.*, **26**, 681-689, 1990.
- [8] The Milnor fiber and the zeta function of the singularities of type $f = P(h, g)$, *Compositio Math.*, **79**, 63-97, 1991.
- [9] Global Sebastiani-Thom theorem for polynomial maps, *J. Math. Soc. Japan*, **Vol. 43**, No 2, 213-218, 1991.
- [10] Generalized local and global Sebastiani-Thom type theorems, *Compositio Mathematica*, **80**, 1-14, 1991.
- [11] Reduction of the Topological Stable Rank in Inductive Limits of C^* -algebras, (joint paper with M. Dădărlat, G. Nagy, and C. Pasnicu) *Pacific Journal of Math.*, **Vol. 153**, No. 2, 267-276, 1992.

- [12] Réduction du rang stable topologique dans C^* -algèbres limites inductives, *C. R. Acad. Sc. Paris*, **t.312**, Serie I, 107-108, 1991.
- [13] Milnor fibration at infinity, (joint paper with A. Zaharia), *Indag. Mathem.*, N.S. **3** (3), 323-335, 1992.
- [14] The zeta function of singularities, *Journal of Algebraic Geometry*, **2**, 1-23, 1993.
- [15] Algebraic torsion, zeta function and Dirichlet series for graph links in homology 3-spheres, *Ergodic Theory and Dynamical Systems*, **13**, 131-142, 1993.
- [16] Injective analytic maps, *Duke Math. Journal.*, **Vol. 69**, No. 2, 335-347, February 1993.
- [17] The semi-ring structure and the spectral pairs of sesqui-linear forms, *Algebra Colloquium*, **1:1**, 1994, 85-95.
- [18] The real Seifert form and the spectral pairs of isolated hypersurface singularities, *Compositio Mathematica*, **98**, 1995, 23-41.
- [19] The equivariant signature of hypersurface singularities and eta-invariant, *Topology* **Vol. 34**, No. 2, 243-259, 1995.
- [20] The mixed Hodge structure of a complete intersection with isolated singularity, *C. R. Acad. Sc. Paris*, **t. 321**, Série I, 1995, 447-452.
 - The mixed Hodge structure of an ICIS, I., unpublished preprint. (41 pages)
- [21] Spectral pairs, mixed Hodge modules and series of plane curve singularities, (joint paper with J. Steenbrink), *New York Journal of Mathematics*, August 16, 1995.
(e-journal: <http://nyjm.albany.edu:8000/j/v1/Nemethi-Steenbrink.html>)
- [22] The eta-invariant of variation structures. I., *Topology and its Appl.*, **67**, 95-111, 1995
- [23] Extending Hodge bundles for Abelian Variations, (joint paper with J. Steenbrink), *Annals of Mathematics*, **143**, 131-148, 1996.
- [24] Variation structures: results and open problems, *Singularities and Differential Equations, Banach Center Publications*, **vol. 33**, 245-257, 1996.
- [25] On the monodromy at infinity of a polynomial map, (joint paper with R. García López), *Compositio Mathematica*, **100**, 205-231, 1996.
- [26] On the monodromy of curve singularities, (joint paper with J. Steenbrink), *Math. Zeitschrift*, **223**, 587-593, 1996.
- [27] Generalized Weil's Reciprocity Law and Multiplicativity Theorems, *Trans. Amer. Math. Soc.*, **349**, 2687-2697 (1997).
- [28] On the spectrum of curve singularities, *Proceedings of the Singularity Conference, Oberwolfach*, July 1996; *Progress in Mathematics*, **Vol. 162**, 93-102, Birkhäuser 1998.

- [29] On the Birkhoff normal form of a completely integrable Hamiltonian system near a fixed point with resonance (joint paper with T. Kappeler and Y. Kodama), *Ann. Scuola Norm. Sup. Pisa Cl. Sci.*, (4) **26**, no. 4, 623-661 (1998).
- [30] Dedekind sums and the signature of $f(x, y) + z^N$, *Selecta Mathematica*, New series, **4**, 361-376 (1998).
- [31] The signature of $f(x, y) + z^n$, *Proceedings of Real and Complex Singularities*, (C.T.C Wall's 60th birthday meeting), Liverpool (England), August 1996; London Math. Soc. Lecture Note Series, **263**, 131-149 (1999).
- [32] On the Seifert form at infinity associated with polynomial maps, *Journal of the Math. Soc. of Japan*, **51**, no.1, 63-70 (1999).
- [33] On the monodromy at infinity of a polynomial map, II. (joint paper with R. García López), *Compositio Math.*, **115**, 1-20, 1999.
- [34] "Weakly" Elliptic Gorenstein singularities of surfaces, *Inventiones math.*, **137**, 145-167 (1999).
- [35] Dedekind sums and the signature of $f(x, y) + z^N$, II., *Selecta Mathematica*, New series, **5**, 161-179 (1999).
- [36] Some topological invariants of isolated hypersurface singularities, Five lectures of the EMS–Summer School, Eger (Hungary) 1996, *Proc. of the Summer school*, Bolyai Society Mathematical Studies **8**, *Low Dimensional Topology*, 353-413 (1999).
- [37] Five lectures on normal surface singularities; lectures delivered at the Summer School in "Low dimensional topology", Budapest, Hungary 1998; *Proc. of the Summer School*, Bolyai Society Mathematical Studies **8**, *Low Dimensional Topology*, 269-351 (1999).
- [38] Semicontinuity of the spectrum at infinity, (joint paper with C. Sabbah), *Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg*, **69**, 25-35 (1999).
- [39] Hodge numbers attached to a polynomial map, (joint paper with R. García López), *Ann. Inst. Fourier, Grenoble*, **49**, 5, 1547-1579 (1999).
- [40] Hypersurface singularities with 2-dimensional critical locus, *Journal of the London Math. Soc.*, Second Series, No **189**, Vol **59**, 922-938 (1999).
- [41] Casson invariant of cyclic coverings via eta-invariant and Dedekind sums, *Topology and its Applications*, Vol **102**, 2, 181-193 (2000).
- [42] Resolution graphs of some surface singularities, I. Cyclic coverings, Proc. of the AMS Conference, San Antonio, 1999; *Contemporary Mathematics* **266**, Singularities in Algebraic and Analytic Geometry, (C. G. Melles and R. I. Michler Eds.), 2000, 89-128.
- [43] Resolution graphs of some surface singularities, II. Generalized Iomdin series, (joint paper with Á. Szilárd), Proc. of the AMS Conference, San Antonio, 1999; *Contemporary Mathematics* **266**, Singularities in Algebraic and Analytic Geometry, (C. G. Melles and R. I. Michler Eds.), 2000, 129-164.

- [44] On the monodromy of complex polynomials, (joint paper with A. Dimca), *Duke Math. Journal*, **108** Number 2, 2001, 199-209.
- [45] The embedded resolution of $f(x, y) + z^2 : (\mathbf{C}^3, 0) \rightarrow (\mathbf{C}, 0)$, (joint paper with Chunsheng Ban and Lee McEwan), *Studia Sc. Math. Hungarica*, **38**, 2001, 51-71.
- [46] Thom-Sebastiani construction and monodromy of polynomials (joint paper with A. Dimca), *Proc. of the Steklov Inst. of Math.*, **238**, 2002, 1-18 (Monodromy in problems of algebraic geometry and differential equations, A.A. Bolibrukh and C. Sabbah Eds.).
- [47] On the Milnor fiber of a quasi-ordinary surface singularity, (joint paper with Chunsheng Ban and Lee McEwan), *Canadian J. of Math.*, **54**, 2002, 55-70.
- [48] On the monodromy representation of polynomial maps in n variables, (joint paper with I. Sigray), *Studia Sc. Math. Hungarica*, **39** (2002).
- [49] On the weight filtration of the homology of algebraic varieties: the generalized Leray cycles (the published version of the preprint: ‘The topology of algebraic varieties, I – The generalized Leray cycles’), (joint paper with Fouad Elzein), *Annali della Scuola Norm. Sup. di Pisa*, vol. 1 (2002), 869-903.
- [50] Seiberg-Witten invariants and surface singularities, (joint paper with L. I. Nicolaescu), *Geometry and Topology*, Volume **6** (2002), 269-328.
- [51] The zeta-function of a quasi-ordinary singularity II, (joint paper with P. D. González Pérez and Lee J. McEwan), *Topics in Algebraic and Noncommutative Geometry*, Contemporary Math., **324** (2003), 109-122.
- [52] Some conjectures about quasi-ordinary singularities, (joint paper with Lee McEwan), *Topics in Algebraic and Noncommutative Geometry*, Contemporary Math., **324** (2003), 185-193.
- [53] The zeta-function of a quasi-ordinary singularity, (joint paper with Lee McEwan), *Compositio Math.* **140** (2004), 667-682.
- [54] Hypersurface complements. Alexander modules and monodromy, (joint paper with A. Dimca), Proc. of the Conference: *Real and Complex Singularities*, San Carlos, Brazil, August 2002; *Contemporary Mathematics*, **354**, 2004, 19-43.
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