Bernhard Lamel

Curriculum Vitæ

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Education

2006	**Habilitation**, *University of Vienna*, Austria.
2000	**Ph.D**, *University of California*, San Diego.
1997	**Mag. rer. nat.**, *University of Vienna*, Austria.

Employment

current	**Full Professor**, *University of Vienna*, Faculty of Mathematics.
2007–2008	**Principal Investigator**, *University of Vienna*, FWF Project P19667 and START project Y377.
2004–2007	**Principal Investigator**, *University of Vienna*, FWF Project P17111.
2002–2004	**Assistant Professor**, *University of Vienna*, partially FWF Project P15279.
2001–2002	**J.L. Doob Research Assistant Professor**, *University of Illinois*, Urbana-Champaign.
2000–2001	**Postdoc**, *Kungliga Tekniska Högskolan*, Stockholm, EU network ANACOGA.
1997–2000	**Teaching Assistant**, *University of California*, San Diego.

Visiting Positions

2018	**University of California**, *San Diego*.
2012	**Université de Nice Sophia Antipolis**, *Département de Mathématiques*.
2008	**Université de Rouen**, *Laboratoire de Mathématiques Raphaël Salem*.
2007	**Masaryk University Brno**, *Innolec-Lecturship CR-geometry, Lecture Course "CR geometry for beginners"*.

Invited Lectures

09-01-2019	**Analysis and geometry in Several Complex Variables III**, *"Regularity of CR mappings in positive codimension"*, Texas A&M University Qatar, Doha, Qatar.
18-09-2018	**Stein manifolds and holomorphic mappings 2018**, *"Convergence of formal CR mpas"*, Ljubljana, Slovenia.
24-07-2018	**7th IST-IME, A conference in "Analysis and Applications", in honour of of Prof. Paulo Cordaro**, *"On regularity of CR mappings"*, ICM2018 satellite conference, Sao Paulo, Brazil.
12-05-2018	**LSMS 2018**, *"What is CR geometry?"*, LAU, Byblos, Lebanon.
04-03-2018	**Southern California Analysis and PDE Conference 2018**, *"Convergence of formal maps"*, La Jolla, CA, USA.

07-08-2017 **IX International Workshop on Geometric Analysis of PDEs and Several Complex Variables**, *Minicourse " Convergence of formal maps"*, joint with Nordine Mir, Serra Negra, Brazil.

29-06-2017 **Dynamics and CR geometry**, *"Convergence of the Chern-Moser-Beloshapka normal forms"*, Universite de Nice, France.

24-05-2017 **Complex Geometry and PDEs**, *"Finite jet determination and generalized stationary discs"*, American University of Beirut, Lebanon.

09-01-2017 **Analysis and Geometry in Several Complex Variables II**, *"Convergence of formal maps between strictly pseudoconvex CR manifolds"*, Texas A&M University at Qatar, Doha.

08-06-2016 **Symposion on Complex Analysis and Geometry**, *"Convergence of formal maps"*, Banach Center Bedlewo, Poland.

25-03-2016 **Complex Analysis Workshop - Ljubljana 2016**, *"Convergence of formal maps"*, Ljubljana, Slovenia.

07-08-2013 **VII International Workshop on Geometric Analysis of PDEs and Several Complex Variables**, *"Symmetries in the infinite type case"*, Serra Negra, Brazil.

05-08-2013 **VII International Workshop on Geometric Analysis of PDEs and Several Complex Variables**, *"Minicourse CR geometry of real-analytic submanifolds of complex spaces"*, Serra Negra, Brazil.

11-06-2013 **CSASC 13**, *"Biholomorphic equivalence in the infinite type case"*, Koper, Slovenia.

04-08-2012 **International Conference on Complex Geometry, Singularities, and Related Fields**, *"Biholomorphic equivalence: a journey from Poincaré to today"*, Tsinghua University, Beijing, China.

25-06-2012 **Conference on Complex Analysis and Partial Differential Equations**, *"Nonminimal hypersurfaces in $\mathbb{C}^2$"*, University of Addis Ababa, Addis Ababa, Ethiopia.

28-01-2012 **CR geometry workshop at KIAS**, *"Nonlinearizable automorphisms of ruled hypersurfaces"*, Korea Institute for Advanced Study, Seoul, Korea.

27-01-2012 **CR geometry workshop at KIAS**, *"Biholomorphic equivalence and jet parametrizations"*, Korea Institute for Advanced Study, Seoul, Korea.

12-12-2011 **Workshop in Several Complex Variables**, *"Mappings of real-analytic CR manifolds"*, Universiteit van Amsterdam, Amsterdam, Netherlands.

24-11-2011 **Algebraic vs. Analytic Geometry**, *"Artin Approximation in CR geometry"*, ESI, Vienna, Austria.

08-05-2011 **VI International Workshop on Geometric Analysis of PDEs and Several Complex Variables**, *"The world according to Poincaré: A hitchhikers guide to CR geometry"*, Radio Hotel, Serra Negra, Brazil.

13-09-2010 **Emerging Applications of complexity for CR mappings**, *"Workshop"*, American Institute for Mathematics, Palo Alto, USA.

08-06-2010 **CR geometry and PDEs IV**, *"Automorphism groups of minimal CR manifolds"*, CIRM, Trento, Italy.

13-05-2010 **Marrakesh Workshop on Geometric Analysis of Several Complex Variables and its interactions**, *"Automorphism groups of minimal CR manifolds"*, Marrakesh, Morocco.

07-07-2009 **International Conference on Several Complex Variables, Complex Geometry, and Partial Differential Equations,**, *"Some Remarks on the Hilbert Ball"*, Wuhan University, Wuhan, China.

23-06-2009 **11èmes Rencontres Mathématiques de Rouen**, *"Some remarks on mappings of the Hilbert ball"*, Université de Rouen, Rouen, France.

03-07-2008 **Conference in the honor of J.J. Kohn**, *"Equivalence in the infinite type setting"*, Univerzita Karlova v Praze, Prague, Czech Republic.

14-01-2008 **Workshop on CR geometry & over-determined PDE systems**, *"Different notions of degeneracy and applications"*, Seoul National University, Seoul, Korea.

18-09-2007 **Slovak-Austrian Mathematical Congress**, *"Some mapping problems in several complex variables"*, Podbanske, Slovakia.

15-06-2007 **Conference on Complex Function Theory and Geometry**, *"Finite determination of finite mappings"*, Banach Center, Warsaw, Poland.

11-09-2006 **American Institute of Mathematics workshop**, *"Complexity of mappings in CR geometry"*, Palo Alto, USA.

05-09-2006 **ICM Madrid 2006 satellite conference CR geometry and PDEs**, *"The finite jet parametrization problem"*, Trento, Italy.

14-06-2006 **International Conference in PDE, Complex Analysis, and Differential Geometry**, *"Automorphism groups of CR manifolds"*, University of Notre Dame, South Bend, USA.

2006-03-03 **Mathematisches Kolloquium der Universität Wien**, *"Parametrization of groups of local CR-automorphisms"*.

2005-10-28 **ESI Program "Complex Analysis, Operator Theory, and Applications to Mathematical Physics"**, *"The finite jet parametrization problem"*.

2005-08-02 **MSRI Summer Workshop CR Geometry**, *"Complexification, Segre Varieties and the X-variety"*.

1999-11-11 **ESI Program "Complex Analysis"**, *"Holomorphic maps between real submanifolds in complex spaces of different dimensions"*.

Invited Colloquia and Seminars

2019 **3rd Central European Complex Analysis Meeting**, *"Normal forms in CR geometry"*, Jagiellonian University, Krakow.

2018 **University of California Irvine**, *"Convergence of formal maps"*.

2013 **Australia National University Canberra, Differential Geometry Seminar**, *"Symmetries of nonminimal hypersurfaces"*.

2012 **Analysis Seminar**, *"Infinite type hypersurfaces in $\mathbb{C}^2$"*, University of California, San Diego, La Jolla, USA.

Colloquium, *"The world according to Poincaré: A hitchhikers guide to CR geometry"*, Univerza v Ljubljani, Ljubljana, Slovenia.

2011 **Jagiellonian University, Krakow, Seminarium Geometryczna Teoria Funkcji**, *"Maps of real-analytic CR manifolds"*.

2010 **University of California, San Diego, Real Analysis Seminar**, *"Parametrization of mappings between certain nonminimal hypersurfaces"*.

2010 **Université de Nice, Laboratoire J.A. Dieudonné, Seminaire "Dynamique et Géométrie"**, *"On the automorphism groups of minimal CR manifolds"*.

Colloquium, *"Lie group structures for automorphism groups of real-analytic CR structures"*, Texas A& M University, College Station, USA.

Univerza v Ljubljani, *"Finite Determination of Finite Mappings"*.

Colloquium, *"CR automorphism groups"*, Texas A& M University, College Station, USA.

2006 **Journeés complexes du Sud, Sainte-Croix**, *"The canonical solution operator to $\bar{\partial}$ for torus-invariant measures"*.

Colloquium, *"Parametrizations of CR automorphisms"*, University of Western Ontario, London, Canada.

2003 **Seminar, Universitè de Rouen, Laboratoire de Mathématiques Raphael Salem**, *"The finite jet determination problem"*.

2002 **Seminar, University of California, San Diego**, *"CR vector bundles and applications"*.

Seminar, University of Houston, *"Finite jet determination: a survey"*.

2001 **Several Complex Variables Seminar, University of Illinois, Urbana-Champaign**, *"Compactness estimates for $\bar{\partial}$"*.

Complex Analysis Seminar, University of Wisconsin, Madison, *"Mapping Problems in Several Complex Variables"*.

Seminar, University of California, San Diego.

2000 **Plurikomplexa Seminariet, Stockholms Universitet**, *"Mappings of real submanifolds in Complex Spaces of Different Dimensions"*.

Domestic and miscellaneous talks

2019 **Fortbildungstagung für Lehrkräfte 2019**, *Plenary lecture "Funktionen und ihre Werte"*, Universität Wien, Vienna, Austria.

2015 **TWAS General conference**, *"The world according to Poincaré: A hitchhikers guide to CR geometry"*, Austrian Academy of Sciences, Vienna, Austria.

2011 **Kolloquium aus Analysis**, *"The world according to Poincaré: A hitchhikers guide to CR geometry"*, TU Graz, Graz, Austria.

2009 **ÖMG+DMV Kongress Graz 2009**, *"Some Remarks on Mappings of the Hilbert Ball"*.

2008 **Mathematisches Kolloquium**, *"It doesn't look flat - or does it?"*, Universität Wien, Wien, Österreich.

2007 **Kolloquium**, *"Komplexifizierung und Reflexion-Technik und Anwendungen"*, TU Graz, Graz, Austria.

2006 **Colloquium**, *"Finite determination of CR mappings"*, Universität Wien, Wien, Austria.

2002 **Mathematisches Kolloquium der Universität Wien**, *"Determination of holomorphic maps by jets of finite order: a survey"*.

Honors and Awards

2013 **Elected member of the Young Academy**, *Austrian Academy of Sciences*.

2007 **START-Award**, *bmwf (the Austrian Federal Ministry of Science and Research)*.

2007 **Förderungspreis**, *Österreichische Mathematische Gesellschaft*.

2001 **Studienpreis**, *Österreichische Mathematische Gesellschaft*.

2000 **Teaching Assistant Award**, *University of California, San Diego*.

Science Communication and Outreach

2012-07-12 **"Was ist die nächste Zahl?"**, *Lecture at KinderuniWissenschaft*, Universität Wien.

2011-07-11 **"Gibt es reelle Zahlen wirklich"**, *Lecture at KinderuniWissenschaft*, Universität Wien.

2011-02-02 **"Iterationen holomorpher Funktionen"**, *FIT-Infotage*, Wien.

2010-07-13 **"Ist unendlich eine Zahl?"**, *Lecture at KinderuniWissenschaft*, Universität Wien.

2009-08 **"Differentialgleichungen und Potenzreihen"**, *Summer School*, Saalbach.

2009-07-15 **"Sind irrationale Zahlen unvernünftig?"**, *Lecture at KinderuniWissenschaft*, Universität Wien.

2009-05-25 **"abgeRECHNET–Was Mathematiker eigentlich machen"**, *Guest in the "Wissenschaftsclub"*, Universität Wien.

2008-07-15 **"Sind irrationale Zahlen unvernünftig und imaginäre Zahlen eingebildet?"**, *Lecture at KinderuniWissenschaft*, Universität Wien.

Funding

Research project grants

2018-current	**International joint project SFR-FWF I3472**, *"Dynamical Methods in CR geometry"*, € 366.079,89, FWF.
2015-current	**NPRP 7-511-1-098**, *"Cauchy-Riemann equations in several complex variables"*, USD 103.680,00, Qatar National Research Fund.
2014-current	**International joint project ANR-FWF I1776**, *"Dynamics and CR geometry"*, € 251.370,00, FWF.
2010-2013	**International joint project ANR-FWF I382**, *"Approximation Theorems in algebra and Cauchy-Riemann geometry: When Michael Artin meets Henri Poincaré"*, € 369.243,00, FWF.
2008–2014	**START award Y377-N15**, *"Biholomorphic Equivalence: Algebra, Analysis and Geometry"*, € 891.320,00, Austrian Federal Ministry of Science and Research.
2007–2010	**FWF Research project P19667**, *"Mapping Problems in Several Complex Variables"*, € 366.000,00, FWF.
2004–2007	**FWF Research project P17111**, *"Mappings of real submanifolds in Complex Spaces"*, € 163.239,40, FWF.

Meitner grants (coapplicant)

2018	**Ngoc Son Duong M2472**, *"Analysis and Geometry on CR manifolds"*.
2018	**Gregorio Chinni M 2324**, *"Regularity of the solutions for PDE and perturbation problem"*.
2012	**Florian Bertrand M1461**, *"Local Analysis on almost complex manifolds"*.
2012	**Ilya Kossovskiy M1413**, *"Real submanifolds in complex space: new currents"*.

Cooperation and travel grants

2019-2020	**WTZ Montenegro ME 06/2019**, *Cooperation with University of Montenegro, Podgorica*, € 8.000,00, ÖAD.
2016-2017	**WTZ Slowenien SI 14/2016**, *Cooperation with University Ljubljana*, € 3.320,00, ÖAD.
2011-2012	**WTZ Slowenien SI 13/2011**, *Cooperation with University Ljubljana*, € 2.604,00, ÖAD.
2008-2009	**Complex Analysis and Interactions**, *€15.000,00*, FFG.
2008-2009	**Amadeé 2008-09 FR08/2008**, *Cooperation with Université de Rouen*, € 5.340,00, ÖAD.

Service

Faculty and university service

2018-current	**Director of studies**.
2012-current	**Vicedean of the Faculty of Mathematics**.
2011-2014	**Speaker of the key research area "Analysis"**, *Faculty of Mathematics, University of Vienna*.
2013-2014	**Member of the curricular development group "LehrerInnenbildung Neu"**, *University of Vienna*.
2013-2016	**Deputy for International Affairs**, *Faculty of Mathematics, University of Vienna*.
2010-2013	**Mittelbaukoordinator der Fakultät für Mathematik an der Universität Wien**.

Organization of scientific events

2018	**ESI workshop "Analysis and CR geometry"**, Vienna, Austria.
2018	**Second Central European Complex Analysis Meeting**, Vienna, Austria.
2017	**First Central European Complex Analysis Meeting**, Vienna, Austria.

2017 **Section Chair "Functional Analysis, Real and Complex Analysis", ÖMG-DMV Tagung Salzburg**.

2017 **Workshop, Universite de Nice Sophia-Antipolis**.

2014 **Workshop "The Cauchy-Riemann equations in several variables", American Institute of Mathematics**.

2013 **Minisymposion "Complex Analysis", CSASC 2013, Koper, Slovenia**.

2012 **Workshop on Pluripotential Theory and Several Complex Variables**.

2011 **Minisymposion "Complex Analysis", CSASC 2011, Krems, Austria**.

2010 **Workshop on Geometric Analysis of PDE and Several Complex Variables, Serra Negra, Brazil, 2011**.

2010 **Followup ESI Program "The $\bar{\partial}$-Neumann problem: Analysis, Geometry, and Potential Theory"**.

2009 **ESI Program "The $\bar{\partial}$-Neumann problem: Analysis, Geometry, and Potential Theory"**.

2008 **Spring Meeting of the Swiss Mathematical Society "Conference on Complex Analysis 2008"**.

Community service

since 2010 **Member of the executive committee of the Austrian Mathematical Society ÖMG**, *http://www.oemg.ac.at*.

since 2015 **Member of committee for SRP**, *since 2015 the Austrian school leaving certifications have been undergoing a "quality check" by the mathematical community*.

Refereeing **Refereeing for journals and funding agencies**, *journals including JEMS, Inventiones, AJM, JDG, TAMS, PAMS, MOFM, and many others*, funding agencies ARRS, Austrian academy of sciences, and others.

since 2003 **MathSciNet**, *Reviewer*.

Supervision

Bachelor theses

2009 Roland Fesselhofer "Das RSA Krypto Verfahren"

Philipp Bachler "Grundzüge der Knotentheorie"

2010 Klemens Katterbauer "Elliptic Regularity"

2013 Paul Stocker "Elliptic Functions"

2014 Peter Fellner "Funktionentheorie in mehreren Veränderlichen"

Sebastian Fischer "Das Schwarz'sche Lemma und Hyperbolische Geometrie am Einheitskreis"

Anna Nömair "Beweise der Eulerschen Summationsformel"

Konstantin Weiner "Riemann surfaces and the uniformization theorem"

Anna Rapberger "Das Banach-Tarski Paradoxon"

Peter Fellner "Ebene hyperbolische Geometrie - Die Modelle von Poincaré"

2015 Margaret Rosenberg "Lebesgue Integration und Konvergenzsätze"

Romana Jezek "Punktweise Konvergenz von Fourierreihen"

Leopold Veselka "Universelle Überlagerung von Riemannschen Flächen"

2016 Marlene Hangl "Das Schwarzsche Lemma"

2017 Daphne Urbanek "Lagebeziehungen von Unterräumen in verschiedenen Geometrien"

2018 Desiree Bailleuel "Selbstähnlichkeit und selbstähnliche Strukturen"

2018 Elisabet Bürschner "Galoistheorie"

Diploma theses

2009   Michael Reiter "Approximation of CR functions" (Mathematics)

2011   Simon Poledna "Digitale Signaturen und Zertifikate" (Teacher Education)

2012   Sebastian Woblistin "Holomorphic maps between rings of power series" (Mathematics)

2013   Rahmi Özaltin "Der Riemannsche Abbildungssatz" (Teacher Education)

Doctoral theses

2014   Michael Reiter "Holomorphic Mappings of Hyperquadrics from $\mathbb{C}^2$ to $\mathbb{C}^3$"

2017   Sebastian Woblistin "On varieties in power series spaces"

2017   Stefan Fürdös "Ultradifferentiable CR manifolds"

Postdocs

2007-2011   Robert Juhlin (left academia)

2009-2012   Joe Perez (deceased)

2008-2015   Giuseppe della Sala (Habilitation 2015, now Assistant Professor at AUB)

2010-2011   Jean-Charles Sunyé (left academia)

2011-2014   Florian Bertrand (now Assistant Professor at AUB)

2010-2012   Anne-Katrin Gallagher (Herbig) (Habilitation 2013, now Assistant Professor at OSU)

2013-2015   Ilya Kossovskiy (Habilitation 2015, now Assistant Professor at Mazaryk University)

2017-   Duong Son

2017-   Gregorio Chinni

Publications

The list of publications is subdivided into published (or accepted) peer-reviewed papers; papers submitted for peer review; papers being prepared for submission (where results have already been reported); and other stuff (lecture notes and so on). The papers are either accessible on the arxiv or on the webpage https://complex.univie.ac.at/people/bernhard-lamel/.

Published and accepted

[A1] Bernhard Lamel and Laurent Stolovitch. *Convergence of the Chern-Moser-Beloshapka normal forms*. to appear in *J. Reine Angew. Math. (Crelle's Journal)*, 2019. URL: `https://complex.univie.ac.at/fileadmin/user_upload/p_complex_analysis/pdfslamel/chern-moser16-submit.pdf`.

[A2] Florian Bertrand, Giuseppe della Sala, and Bernhard Lamel. "Jet determination of smooth CR automorphisms and generalized stationary discs". In: (2019). to appear in *Math. Z.* arXiv: `1705.01527` `[math.CV]`.

[A3] Giuseppe Della Sala, Paulo D. Cordaro, and Bernhard Lamel. "The Borel map in locally integrable structures". In: *Mathematische Annalen* (Feb. 2019). ISSN: 1432-1807. DOI: `10.1007/s00208-019-01811-w`. URL: `https://doi.org/10.1007/s00208-019-01811-w`.

[A4] Ilya Kossovskiy and Bernhard Lamel. "On the analyticity of CR-diffeomorphisms". In: *Amer. J. Math.* 140.1 (2018), pp. 139–188. ISSN: 0002-9327. DOI: `10.1353/ajm.2018.0002`. arXiv: `1408.6711` `[math.CV]`. URL: `https://doi.org/10.1353/ajm.2018.0002`.

[A5] Bernhard Lamel and Nordine Mir. "Convergence and divergence of formal CR mapings". In: *Acta Mathematica* 220.2 (2018), pp. 367–406. DOI: `10.4310/ACTA.2018.v220.n2.a5`.

[A6] Bernhard Lamel and Nordine Mir. "Formal versus analytic CR mappings". to appear in *Annales Polonici Mathematici*. 2018.

[A7] Bernhard Lamel and Nordine Mir. "On the $\mathcal{C}^\infty$ regularity of CR mappings of positive codimension". In: *Advances in Mathematics* 335 (2018), pp. 696–734. ISSN: 0001-8708. DOI: `10.1016/j.aim.2018.07.004`. URL: `http://www.sciencedirect.com/science/article/pii/S0001870818302524`.

[A8] Peter Ebenfelt, Bernhard Lamel, and Dmitri Zaitsev. "Normal form for infinite type hypersurfaces in $\mathbb{C}^2$ with nonvanishing Levi form derivative". In: *Doc. Math.* 22 (2017), pp. 165–190. arXiv: `1510.05335` `[math.CV]`.

[A9] Bernhard Lamel and Nordine Mir. "Convergence of formal CR mappings into strongly pseudoconvex Cauchy-Riemann manifolds". In: *Inventiones Mathematicae* 210(3) (2017), pp. 963–985. DOI: `10.1007/s00222-017-0743-3`.

[A10] Stefan Fürdös and Bernhard Lamel. "Regularity of infinitesimal CR automorphisms". In: *Internat. J. Math.* 27.14 (2016), pp. 1650112, 25. DOI: `10.1142/S0129167X16501123`. arXiv: `1611.09112` `[math.CV]`.

[A11] Ilya Kossovskiy and Bernhard Lamel. "New extension phenomena for solutions of tangential Cauchy-Riemann equations". In: *Communications in Partial Differential Equations* 41.6 (2016), pp. 925–951. DOI: `10.1080/03605302.2016.1180536`. arXiv: `1507.06151` `[math.CV]`.

[A12] Ilya Kossovskiy, Bernhard Lamel, and Ming Xiao. *Regularity of CR-mappings of codimension one into Levi-degenerate hypersurfaces*. To appear in *Comm. Anal. Geom.* 2016. arXiv: `1609.00652` `[math.CV]`.

[A13] Bernhard Lamel, Michael Reiter, and Giuseppe della Sala. "Infinitesimal and local rigidity of mappings of CR manifolds". In: *Analysis and Geometry in Several Complex Variables*. Vol. 681. Contemporary Mathematics. Providence, Rhode Island: Amer. Math. Soc., 2016, pp. 71–83. DOI: `10.1090/conm/681/13658`.

[A14] Martin Kolar and Bernhard Lamel. "Holomorphic Equivalence and Nonlinear Symmetries of Ruled Hypersurfaces in C^2". In: *The Journal of Geometric Analysis* 25.2 (2015), pp. 1240–1281. DOI: `10.1007/s12220-013-9465-y`.

[A15] Giuseppe della Sala, Robert Juhlin, and Bernhard Lamel. "Deformations of CR manifolds, parametrizations of automorphisms, and applications". In: *Mathematical Research Letters* 22.4 (2015), pp. 1089–1127. DOI: `10.4310/MRL.2015.v22.n4.a7`.

[A16] Giuseppe della Sala, Bernhard Lamel, and Michael Reiter. "Local and infinitesimal rigidity of hypersurface embeddings". In: *Transactions of the American Mathematical Society* math.CV (July 2015). DOI: `10.1090/tran/6885`. arXiv: `1507.08842 [math.CV]`.

[A17] Bernhard Lamel and Giuseppe della Sala. "On the vanishing rate of smooth CR functions". In: *Proceedings of the American Mathematical Society. Series B* 1.3 (2014), pp. 23–32. DOI: `10.1090/s2330-1511-2014-00007-9`.

[A18] Robert Juhlin and Bernhard Lamel. "Automorphism groups of minimal real-analytic CR manifolds". In: *Journal of the European Mathematical Society (JEMS)* 15.2 (2013), pp. 509–537. DOI: `10.4171/JEMS/366`.

[A19] Robert Juhlin and Bernhard Lamel. "On maps between nonminimal hypersurfaces". In: *Mathematische Zeitschrift* 273.1-2 (2013), pp. 515–537. DOI: `10.1007/s00209-012-1017-9`.

[A20] Bernhard Lamel and Giuseppe della Sala. "CR functions and their formal expansions". In: *Bulletin of the Institute of Mathematics Academia Sinica (New Series)* 8.3 (2013), pp. 377–387.

[A21] Giuseppe della Sala and Bernhard Lamel. "Asymptotic Approximations and a Borel-type result for CR functions". In: *International Journal of Mathematics* 24.11 (2013). DOI: `10.1142/S0129167X13500912`.

[A22] Giuseppe della Sala, Robert Juhlin, and Bernhard Lamel. "Formal theory of Segre varieties". In: *Illinois Journal of Mathematics* 56.1 (2012), 101–125 (2013).

[A23] Bernhard Lamel. "Jet embeddability of local automorphism groups of real-analytic CR manifolds". In: *Geometric analysis of several complex variables and related topics*. Vol. 550. Contemporary Mathematics. Providence, Rhode Island: Amer. Math. Soc., 2011, pp. 89–108.

[A24] Robert Juhlin, Bernhard Lamel, and Francine Meylan. "Formal meromorphic functions on manifolds of finite type". In: *Pure and Applied Mathematics Quarterly* 6.4, Special Issue: In honor of Joseph J. Kohn. Part 2 (2010), pp. 1027–1033. arXiv: `0803.2103 [math.CV]`.

[A25] Bernhard Lamel and Nordine Mir. "Holomorphic versus algebraic equivalence for deformations of real-algebraic Cauchy-Riemann manifolds". In: *Communications in Analysis and Geometry* 18.5 (2010), pp. 891–925. arXiv: `1106.3151 [math.CV]`.

[A26] Peter Ebenfelt, Bernhard Lamel, and Dmitri Zaitsev. "Degenerate real hypersurfaces in $\mathbb{C}^2$ with few automorphisms". In: *Transactions of the American Mathematical Society* 361.6 (2009), pp. 3241–3267. arXiv: `0605540 [math.CV]`.

[A27] Friedrich Haslinger and Bernhard Lamel. "Spectral properties of the canonical solution operator to $\bar{\partial}$". In: *Journal of Functional Analysis* 255.1 (2008), pp. 13–24. arXiv: `0612352 [math.CV]`.

[A28] Bernhard Lamel. "Local automorphisms of the Hilbert ball". In: *Proceedings of the American Mathematical Society* 136.8 (2008), pp. 2815–2822. arXiv: `0612688 [math.CV]`.

[A29] Bernhard Lamel, Nordine Mir, and Dmitri Zaitsev. "Lie group structures on automorphism groups of real-analytic CR manifolds". In: *American Journal of Mathematics* 130.6 (2008), pp. 1709–1726. arXiv: `0611015 [math.CV]`.

[A30] Bernhard Lamel and Nordine Mir. "Finite jet determination of CR mappings". In: *Advances in Mathematics* 216.1 (2007), pp. 153–177. arXiv: `0706.3115 [math.CV]`.

[A31] Bernhard Lamel and Nordine Mir. "Finite jet determination of local CR automorphisms through resolution of degeneracies". In: *The Asian Journal of Mathematics* 11.2 (2007), pp. 201–216. arXiv: `0609380 [math.CV]`.

[A32] Bernhard Lamel and Nordine Mir. "Parametrization of local CR automorphisms by finite jets and applications". In: *Journal of the American Mathematical Society* 20.2 (2007), pp. 519–572. arXiv: `0608047 [math.CV]`.

[A33] Bernhard Lamel. "Explicit bounds for the finite jet determination problem". In: *Transactions of the American Mathematical Society* 358.8 (2006), 3447–3457 (electronic).

[A34] Bernhard Lamel and Nordine Mir. "On the stability group of CR manifolds". In: *Comptes Rendus Mathématique. Académie des Sciences. Paris* 343.3 (2006), pp. 169–172.

[A35] Bernhard Lamel and Nordine Mir. "Remarks on the rank properties of formal CR maps". In: *Sci. China Ser. A* 49.11 (2006), pp. 1477–1490. arXiv: 0608048 [math.CV].

[A36] Peter Ebenfelt and Bernhard Lamel. "Finite jet determination of CR embeddings". In: *The Journal of Geometric Analysis* 14.2 (2004), pp. 241–265. arXiv: 0206287 [math.CV].

[A37] Bernhard Lamel. "A smooth regularity theorem for nondegenerate CR mappings". In: *Monatshefte für Mathematik* 142.4 (2004), pp. 315–326. arXiv: 10012010 [math.CV].

[A38] Peter Ebenfelt, Bernhard Lamel, and Dmitry Zaitsev. "Finite jet determination of local analytic CR automorphisms and their parametrization by 2-jets in the finite type case". In: *Geometric And Functional Analysis* 13.3 (2003), pp. 546–573. arXiv: 0107013 [math.CV].

[A39] Bernhard Lamel. "A reflection principle for real-analytic submanifolds of complex spaces". In: *The Journal of Geometric Analysis* 11.4 (2001), pp. 627–633. arXiv: 9904118 [math.CV].

[A40] Bernhard Lamel. "Holomorphic maps of real submanifolds in complex spaces of different dimensions". In: *Pacific Journal of Mathematics* 201.2 (2001), pp. 357–387. arXiv: 9911057 [math.CV].

Submitted

[B1] Florian Bertrand, Giuseppe Della Sala, and Bernhard Lamel. "Extremal discs and Segre varieties for real-analytic hypersurfaces in $\mathbb{C}^2$". Preprint, 12 pages, submitted. 2019.

[B2] Paulo Cordaro, Giuseppe Della Sala, and Bernhard Lamel. "The Borel map for compact sets in the plane". Preprint, 12 pages, submitted. 2019.

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[1]These are preprints in preparation for results which have already been presented at conferences and/or workshops. The titles are working titles.