

# References

1. Alexander, H.: Holomorphic mappings from the ball and polydisc. *Math. Ann.* **209**, 249–256 (1974)
2. Baouendi, M. S., Ebenfelt, P., Rothschild, L. P.: *Real submanifolds in complex space and their mappings*. Princeton Mathematical Series 47, Princeton University Press, Princeton, NJ (1999)
3. Baouendi, M. S., Jacobowitz, H., Treves, F.: On the analyticity of CR-mappings. *Ann. of Math.* **122**, 365–400 (1985)
4. Baouendi, M. S., Rothschild, L., Treves, F.: CR structures with group action and extendability of CR functions. *Invent. Math.* **82**, 359–396 (1985)
5. Bass, H.: On the ubiquity of Gorenstein rings. *Math. Z.* **82**, 8–28 (1963)
6. Beloshapka, V.: Finite-dimensionality of the group of automorphisms of a real analytic surface. *Math. USSR-Izv.* **32**, 443–448 (1989)
7. Beloshapka, V.: On holomorphic transformations of a quadric. *Math. USSR. Sb.* **72**, 189–205 (1992)
8. Burgoyne, N., Cushman, R.: Conjugacy classes in linear groups. *J. Algebra* **44**, 339–362 (1977)
9. Burns D., Shnider, S.: Real hypersurfaces in complex manifolds. In: *Several Complex Variables, Proc. Symp. Pure Math. XXX, Part 2*, Williams Coll, Williamstown, Mass. 1975, pp. 141–168. Amer. Math. Soc. (1977)
10. Burns D., Shnider, S.: Projective connections in CR geometry. *Manuscripta Math.* **33**, 1–26 (1980/81).
11. Burns, D., Diederich, K., Shnider, S.: Distinguished curves in pseudoconvex boundaries. *Duke Math. J.* **44**, 407–431 (1977)
12. Čap, A., Eastwood, M.: Some special geometry in dimension six. In: *Proceedings of the 22nd Winter School “Geometry and Physics”* (Srní, 2002). *Rend. Circ. Mat. Palermo (2) Suppl.* **71**, 93–98 (2003)
13. Čap, A.: Two constructions with parabolic geometries. *Rend. Circ. Mat. Palermo (2) Suppl.* **79**, 11–37 (2006)
14. Čap, A., Schichl, H.: Parabolic geometries and canonical Cartan connections. *Hokkaido Math. J.* **29**, 453–505 (2000)
15. Čap, A., Schmalz, G.: Partially integrable almost CR manifolds of CR dimension and codimension two. In: *Lie Groups, Geometric Structures and Differential Equations – One Hundred Years After Sophus Lie* (Kyoto/Nara, 1999), *Adv. Stud. Pure Math.* **37**, pp. 45–77. Math. Soc. Japan, Tokyo (2002)
16. Čap, A., Slovák, J.: *Parabolic Geometries. I. Background and General Theory*. Mathematical Surveys and Monographs 154, American Mathematical Society, Providence, RI (2009)
17. Cartan, É.: Sur la géométrie pseudo-conforme des hypersurfaces de l’espace de deux variables complexes: I. *Ann. Math. Pura Appl.* **11**, 17–90 (1932); II. *Ann. Scuola Norm. Sup. Pisa* **1**, 333–354 (1932)

18. Cartan, É.: Les problèmes d'équivalence. Séminaire de Math. Exposé D (1937)
19. Catlin, D.: Boundary behavior of holomorphic functions on pseudoconvex domains. *J. Diff. Geom.* **15**, 605–625 (1980)
20. Chaouech, A.: Rigid spherical hypersurfaces in  $\mathbb{C}^2$ . *Proyecciones* **20**, 205–216 (2001)
21. Chen, H., Seeley, C., Yau, S. S.-T.: Algebraic determination of isomorphism classes of the moduli algebras of  $E_6$  singularities. *Math. Ann.* **318**, 637–666 (2000)
22. Chen, S.-C., Shaw, M.-C.: *Partial Differential Equations in Several Complex Variables*. Studies in Advanced Mathematics 19, Amer. Math. Soc. and International Press (2001)
23. Chern, S. S.: On the projective structure of a real hypersurface in  $\mathbb{C}^{n+1}$ . *Math. Scand.* **36**, 74–82 (1975)
24. Chern, S. S., Moser, J. K.: Real hypersurfaces in complex manifolds. *Acta Math.* **133**, 219–271 (1974); erratum. *Acta Math.* **150**, 297 (1983)
25. Chirka, E. M.: Introduction to the geometry of CR-manifolds. *Russian Math. Surveys* **46**, 95–197 (1991)
26. Coupet, B., Sukhov, A.: Rigidity of algebraic CR-structures and regularity of CR mappings. Preprint 97-4, Centre de Mathématiques et d'Informatique, Université de Provence (1997)
27. Dadok, J., Yang, P.: Automorphisms of tube domains and spherical hypersurfaces. *Amer. J. Math.* **107**, 999–1013 (1985)
28. Dickson, L. E.: Equivalence of pairs of bilinear or quadratic forms under rational transformations. *Trans. Amer. Math. Soc.* **10**, 347–360 (1909)
29. Eastwood, M. G.: Moduli of isolated hypersurface singularities. *Asian J. Math.* **8**, 305–313 (2004)
30. Eastwood, M. G., Ezhov, V. V.: On affine normal forms and a classification of homogeneous surfaces in affine three-space. *Geom. Dedicata* **77**, 11–69 (1999)
31. Ezhov, V. V., Isaev, A. V.: Canonical isomorphism of two Lie algebras arising in CR-geometry. *Publ. RIMS* **35**, 249–261 (1999)
32. Ezhov, V. V., Isaev, A. V., Schmalz, G.: Invariants of elliptic and hyperbolic CR-structures of codimension 2. *Internat. J. Math.* **10**, 1–52 (1999)
33. Ezhov, V. V., Schmalz, G.: Holomorphic automorphisms of quadrics. *Math. Z.* **216**, 453–470 (1994)
34. Ezhov, V. V., Schmalz, G.: A simple proof of Beloshapka's theorem on the parametrization of the automorphism group of a CR manifold. *Math. Notes* **61**, 783–786 (1997)
35. Ezhov, V. V., Schmalz, G.: A matrix Poincaré formula for holomorphic automorphisms of quadrics of higher codimension. *Real associative quadrics*. *J. Geom. Anal.* **8**, 27–41 (1998)
36. Ezhov, V. V., Schmalz, G.: X-Starrheit hermitescher Quadriken in allgemeiner Lage. *Math. Nachr.* **204**, 41–60 (1999)
37. Ezhov, V. V., Schmalz, G.: Holomorphic automorphisms of non-degenerate CR-quadrics. Explicit description. *J. Geom. Anal.* **11**, 441–467 (2001)
38. Ezhov, V. V., Schmalz, G.: Linearization of isotropic automorphisms of non-quadratic elliptic CR-manifolds in  $\mathbb{C}^4$ . In: *Geometric Analysis and Nonlinear Partial Differential Equations*, pp. 89–103. Springer, Berlin (2003)
39. Ezhov, V. V., Schmalz, G.: Non-linearizable CR-automorphisms, torsion-free elliptic CR-manifolds and second order ODE. *J. Reine Angew. Math.* **584**, 215–236 (2005)
40. Fels, G., Isaev, A., Kaup, W., Kruzhilin, N.: Isolated hypersurface singularities and polynomial realizations of affine quadrics. Available from the Mathematics ArXiv. <http://arxiv.org/abs/1007.4356>
41. Fels G., Kaup, W.: Local tube realizations of CR-manifolds and maximal Abelian subalgebras. *Annali Scuola Norm. Sup. Pisa*, to appear
42. Fels G., Kaup, W.: Classification of commutative algebras and tube realizations of hyperquadrics. Available from the Mathematics ArXiv. <http://arxiv.org/abs/0906.5549>
43. Fels G., Kaup, W.: Nilpotent algebras and affinely homogeneous surfaces. Available from the Mathematics ArXiv. <http://arxiv.org/abs/1101.3088>
44. Forstnerič, F.: Mappings of quadric Cauchy-Riemann manifolds. *Math. Ann.* **292**, 163–180 (1992)

45. Freeman, M.: Local biholomorphic straightening of real submanifolds. *Ann. of Math.* **106**, 319–352 (1977)
46. Gantmacher, F. R.: *The Theory of Matrices*. Hirsch Chelsea Publishing Co., New York (1959)
47. Garrity, T., Mizner, R.: The equivalence problem for higher-codimensional CR structures. *Pacific. J. Math.* **177**, 211–235 (1997)
48. Garrity, T.: Global structures on CR manifolds via Nash blow-ups. *Michigan Math. J.* **48**, 281–294 (2000)
49. Gaussier, H.: Smoothness of Cauchy Riemann maps for a class of real hypersurfaces. *Publ. Mathématiques* **45**, 79–94 (2001)
50. Greuel, G.-M., Lossen, C., Shustin, E.: *Introduction to Singularities and Deformations*. Springer Monographs in Mathematics, Springer, Berlin (2007)
51. Huneke, C.: Hyman Bass and ubiquity: Gorenstein rings. In: *Algebra, K-theory, Groups, and Education*, *Contemp. Math.* 243, New York, 1997, pp. 55–78. Amer. Math. Soc. (1999)
52. Isaev, A. V.: Reduction of the problem of classification of tube quadrics to the solution of a system of differential equations of a special form. *Math. Notes* **45**, 354–360 (1989)
53. Isaev, A. V.: Classification of spherical tube hypersurfaces that have two minuses in the Levi signature form. *Math. Notes* **46**, 517–523 (1989)
54. Isaev, A. V.: Affine classification of spherical tube hypersurfaces that have two minuses in the Levi signature form (Russian). Preprint VINITI 1788-B89, 117 pp., Moscow (1989)
55. Isaev, A. V.: Straight complex foliations on tube manifolds. Preprint CMA-MR19-92, Centre for Mathematics and its Applications, The Australian National University, Canberra (1992)
56. Isaev, A. V.: Global properties of spherical tube hypersurfaces. *Indiana Univ. Math. J.* **42**, 179–213 (1993)
57. Isaev, A. V.: Rigid spherical hypersurfaces. *Complex Variables* **31**, 141–163 (1996)
58. Isaev, A. V.: Zero CR-curvature equations for rigid and tube hypersurfaces. *Complex Variables* (special issue) **54**, 317–344 (2009)
59. Isaev, A. V.: On the number of affine equivalence classes of spherical tube hypersurfaces. *Math. Ann.* **349**, 59–74 (2011)
60. Isaev, A. V.: Simple elliptic hypersurface singularities: a new look at the equivalence problem. *Proc. Japanese-Australian Real and Complex Singularities Workshop*, Sydney, 15–18 September 2009. *Proc. Centre Math. Appl. Austral. Nat. Univ.* **43**, 9–17 (2010). Available from <http://www.maths.anu.edu.au/research/publications/proceedings/043>
61. Isaev, A. V.: On the affine homogeneity of algebraic hypersurfaces arising from Gorenstein algebras. Available from the Mathematics ArXiv. <http://arxiv.org/abs/1101.0452>
62. Isaev, A., Kaup, W.: Regularization of local CR-automorphisms of real-analytic CR-manifolds. *J. Geom. Anal.*, to appear
63. Isaev, A. V., Kossovskiy, I. G.: Continuation of CR-automorphisms of Levi degenerate hyperquadrics to the projective space. *Illinois J. Math.*, to appear
64. Isaev, A. V., Mishchenko, M. A.: Classification of spherical tube hypersurfaces that have one minus in the Levi signature form. *Math. USSR-Izv.* **33**, 441–472 (1989)
65. Ivey, T. A., Landsberg, J. M.: *Cartan for Beginners: Differential Geometry via Moving Frames and Exterior Differential Systems*. Graduate Studies in Mathematics 61, American Mathematical Society, Providence, RI (2003)
66. Jacobowitz, H.: Induced connections on hypersurfaces in  $\mathbb{C}^{n+1}$ . *Invent. Math.* **43**, 109–123 (1977)
67. Jacobowitz, H.: *An Introduction to CR Structures*. Mathematical Surveys and Monographs 32, American Mathematical Society, Providence, RI (1990)
68. Kaup, W.: Einige Bemerkungen über polynomiale Vektorfelder, Jordanalgebren und die Automorphismen von Siegelschen Gebieten. *Math. Ann.* **204**, 131–144 (1973)
69. Kaup, W.: On the local equivalence of homogeneous CR-manifolds. *Arch. Math.* **84**, 276–281 (2005)
70. Khenkin, G., Tumanov, A.: Local characterization of holomorphic automorphisms of Siegel domains. *Funct. Anal. Appl.* **17**, 285–294 (1983)
71. Kim, S.-Y., Zaitsev, D.: Equivalence and embedding problems for CR-structures of any codimension. *Topology* **44**, 557–584 (2005)

72. Knapp, A. W.: *Elliptic Curves*. Mathematical Notes, 40, Princeton University Press, Princeton, NJ (1992)
73. Kruzhilin, N. G., Soldatkin, P. A.: Affine and holomorphic equivalence of tube domains in  $\mathbb{C}^2$ . *Math. Notes* **75**, 623–634 (2004)
74. Kruzhilin, N. G., Soldatkin, P. A.: Holomorphic equivalence of tube domains in  $\mathbb{C}^2$ . *Proc. Steklov Inst. Math.* **253**, 90–99 (2006)
75. Kunz, E.: Almost complete intersections are not Gorenstein rings. *J. Algebra* **28**, 111–115 (1974)
76. Kuranishi, M.: CR geometry and Cartan geometry. *Forum Math.* **7**, 147–205 (1995)
77. Lai, H.-F.: Real submanifolds of codimension two in complex manifolds. *Trans. Amer. Math. Soc.* **264**, 331–352 (1981)
78. Landucci, M., Spiro, A.: On the localization principle for the automorphisms of pseudoellipsoids. *Proc. Amer. Math. Soc.* **137**, 1339–1345 (2009)
79. Leichtweiß, K.: Über eine geometrische Deutung des Affinnormalenvektors einseitig gekrümmter Hyperflächen. *Arch. Math.* **53**, 613–621 (1989)
80. Loboda, A. V.: On the sphericity of rigid hypersurfaces in  $\mathbb{C}^2$ . *Math. Notes* **62**, 329–338 (1997)
81. Loboda, A. V.: Any holomorphically homogeneous tube in  $\mathbb{C}^2$  has an affine-homogeneous base. *Siberian Math. J.* **42**, 1111–1114 (2001)
82. Martsinkovsky, A.: Maximal Cohen-Macaulay modules and the quasihomogeneity of isolated Cohen-Macaulay singularities. *Proc. Amer. Math. Soc.* **112**, 9–18 (1991)
83. Merker, J.: Nonrigid spherical real analytic hypersurfaces in  $\mathbb{C}^2$ . *Complex Variables* **55**, 1155–1182 (2010)
84. Merker, J.: Vanishing Hachtroudi curvature and local equivalence to the Heisenberg sphere. Available from the Mathematics ArXiv. <http://arxiv.org/abs/0910.2861>
85. Mizner, R.: CR structures of codimension 2. *J. Diff. Geom.* **30**, 167–190 (1989)
86. Nemirovskii, S., Shafikov, R.: Uniformization of strictly pseudoconvex domains. I. *Izv. Math.* **69**, 1189–1202 (2005)
87. Pinchuk, S. I., Tsyganov, S. I.: CR-straightening of real manifolds in  $\mathbb{C}^n$ . *Math. Notes* **50**, 1295–1298 (1991)
88. Pinchuk, S. I.: On the analytic continuation of holomorphic mappings. *Math. USSR, Sb.* **27**, 375–392 (1975)
89. Pinchuk, S. I.: On holomorphic mappings of real analytic hypersurfaces. *Math. USSR, Sb.* **34**, 503–519 (1978)
90. Poincaré, H.: Les fonctions analytiques de deux variables et la représentation conforme. *Rend. Circ. Math. Palermo* **23**, 185–220 (1907)
91. Saito, K.: Quasihomogene isolierte Singularitäten von Hyperflächen. *Invent. Math.* **14**, 123–142 (1971)
92. Saito, K.: Einfach-elliptische Singularitäten. *Invent. Math.* **23**, 289–325 (1974)
93. Satake, I.: *Algebraic Structures of Symmetric Domains*. Kanô Memorial Lectures 4, Iwanami Shoten, Tokyo, Princeton University Press (1980)
94. Schmalz, G., Slovák, J.: The geometry of hyperbolic and elliptic CR-manifolds of codimension two. *Asian J. Math.* **4**, 565–597 (2000); addendum. *Asian J. Math.* **7**, 303–306 (2003)
95. Schmalz, G., Spiro, A.: Explicit construction of a Chern-Moser connection for CR manifolds of codimension two. *Ann. Mat. Pura Appl.* (4) **185**, 337–379 (2006)
96. Springer, T. A., Steinberg, R.: Conjugacy classes. In: *Seminar on Algebraic Groups and Related Finite Groups* (The Institute for Advanced Study, Princeton, N.J., 1968/69), pp. 167–266. Springer, Berlin (1970)
97. Sternberg, S.: *Lectures on Differential Geometry*. Prentice Hall (1964)
98. Sukhov, A.: On CR mappings of real quadric manifolds. *Michigan Math. J.* **41**, 143–150 (1994)
99. Tanaka, N.: On the pseudo-conformal geometry of hypersurfaces of the space of  $n$  complex variables. *J. Math. Soc. Japan* **14**, 397–429 (1962)
100. Tanaka, N.: Graded Lie algebras and geometric structures. In: *Proc. U.S.-Japan Seminar in Diff. Geom.* 1965, pp. 147–150. Nippon Hyoronsha, Tokyo (1966)

101. Tanaka, N.: On generalized graded Lie algebras and geometric structures I. *J. Math. Soc. Japan* **19**, 215–254 (1967)
102. Tanaka, N.: On non-degenerate real hypersurfaces, graded Lie algebras and Cartan connections. *Japan. J. Math.* **2**, 131–190 (1976)
103. Tanaka, N.: On the equivalence problem associated with simple graded Lie algebras. *Hokkaido Math. J.* **8**, 23–84 (1979)
104. Tate, J. T.: The arithmetic of elliptic curves. *Invent. Math.* **23**, 179–206 (1974)
105. Tumanov, A.: Geometry of CR-manifolds. *Encycl. Math. Sci. 9 – Several Complex Variables III*, pp. 201–221. Springer, Berlin (1989)
106. Tumanov, A.: Finite-dimensionality of the group of CR automorphisms of a standard CR manifold, and proper holomorphic mappings of Siegel domains. *Math. USSR. Izv.* **32**, 655–662 (1989)
107. Vitushkin, A. G., Ezhov, V. V., Kruzhilin, N. G.: Extension of holomorphic mappings along real-analytic hypersurfaces. *Proc. Steklov Inst. Math.* **167**, 63–102 (1986)
108. Yang, P. C.: Automorphisms of tube domains. *Amer. J. Math.* **104**, 1005–1024 (1982)

# Index

- $(k, m - k, n - m)$ -spherical CR-hypersurface, 198
- $(k, n - k)$ -spherical CR-hypersurface, 23
- $G$ -structure, 2
- $G$ -structures reducible to absolute parallelisms, 3
- $\chi_Q$ , 59
- absolute parallelism, 3
- abstract globalization of a germ of a tube manifold, 203
- abstract globalization of a tube manifold, 203
- admissible algebra, 210
- affinely equivalent tube hypersurfaces, 42
- affinely equivalent germs of tube manifolds, 200
- anti-CR-map, 201
- base of a tube hypersurface, 41
- base of a tube manifold, 197
- Bianchi identities, 20
- Cartan connection, 19
- complex foliation on a CR-manifold, 195
- complex tangent space, 1
- CR-automorphism, 2
- CR-codimension, 1
- CR-curvature form, 18
- CR-dimension, 1
- CR-equivalence, 2
- CR-equivalent CR-manifolds, 2
- CR-flat CR-hypersurface, 23
- CR-function, 3
- CR-hypersurface, 1
- CR-isomorphism, 2
- CR-manifold, 1
- CR-map, 2
- CR-structure, 1
- CR-submanifold, 2
- curvature form, 7, 18
- defining system, 50
- defining systems of types I, II, III, 62
- equivalent  $G$ -structures, 2
- equivalent Hermitian forms, 4
- equivalent involutions of a germ of a CR-manifold, 202
- generic CR-manifold in a complex manifold, 200
- globalization of a germ of a tube manifold, 204
- globalization of a tube manifold, 204
- globally affinely equivalent germs of tube manifolds, 203
- Gorenstein algebra, 210
- induced CR-structure, 2
- infinitesimal CR-automorphism, 2
- integrable CR-structure, 3
- involution of a CR-manifold, 202
- involution of a germ of a CR-manifold, 202
- isomorphism of  $G$ -structures, 2
- leaf of a foliation, 196
- Levi foliation, 197
- Levi form, 4
- Levi non-degenerate CR-manifold, 4
- Levi-flat CR-manifold, 197
- local CR-automorphism, 2
- locally CR-straightenable foliation on a CR-manifold, 196
- locally holomorphically straightenable foliation on a CR-manifold, 196

- MANSA, 205
- MASA, 205
- matrix symmetric with respect to a bilinear form, 46
- Maurer-Cartan equation, 22
- Maurer-Cartan form, 22
- Milnor algebra of a function germ, 212
- moduli algebra of an isolated hypersurface singularity, 212
  
- non-degenerate Hermitian form, 4
  
- quadric associated to a Hermitian form, 5
- quasi-homogeneous isolated hypersurface singularity, 212
  
- real hypersurface in a complex manifold, 2
- rigid hypersurface, 35
- rigid polynomial hypersurface, 39
- rigid representation, 35
  
- signature of a non-degenerate Hermitian form, 4
- signature of the Levi form, 4
- spherical CR-hypersurface, 23, 198
- standard representation of a tube hypersurface, 42
- strongly pseudoconvex CR-hypersurface, 43
- strongly uniform CR-manifold, 4
  
- Tjurina algebra of an isolated hypersurface singularity, 212
- torsion of the curvature form, 18
- tube hypersurface, 41
- tube manifold, 197
- tube neighborhood, 42
- tube realization, 200
  
- umbilic point, 31
  
- weakly uniform CR-manifold, 6

Edited by J.-M. Morel, B. Teissier, P.K. Maini

**Editorial Policy** (for the publication of monographs)

1. Lecture Notes aim to report new developments in all areas of mathematics and their applications - quickly, informally and at a high level. Mathematical texts analysing new developments in modelling and numerical simulation are welcome.

Monograph manuscripts should be reasonably self-contained and rounded off. Thus they may, and often will, present not only results of the author but also related work by other people. They may be based on specialised lecture courses. Furthermore, the manuscripts should provide sufficient motivation, examples and applications. This clearly distinguishes Lecture Notes from journal articles or technical reports which normally are very concise. Articles intended for a journal but too long to be accepted by most journals, usually do not have this “lecture notes” character. For similar reasons it is unusual for doctoral theses to be accepted for the Lecture Notes series, though habilitation theses may be appropriate.

2. Manuscripts should be submitted either online at [www.editorialmanager.com/lnm](http://www.editorialmanager.com/lnm) to Springer’s mathematics editorial in Heidelberg, or to one of the series editors. In general, manuscripts will be sent out to 2 external referees for evaluation. If a decision cannot yet be reached on the basis of the first 2 reports, further referees may be contacted: The author will be informed of this. A final decision to publish can be made only on the basis of the complete manuscript, however a refereeing process leading to a preliminary decision can be based on a pre-final or incomplete manuscript. The strict minimum amount of material that will be considered should include a detailed outline describing the planned contents of each chapter, a bibliography and several sample chapters.

Authors should be aware that incomplete or insufficiently close to final manuscripts almost always result in longer refereeing times and nevertheless unclear referees’ recommendations, making further refereeing of a final draft necessary.

Authors should also be aware that parallel submission of their manuscript to another publisher while under consideration for LNM will in general lead to immediate rejection.

3. Manuscripts should in general be submitted in English. Final manuscripts should contain at least 100 pages of mathematical text and should always include
  - a table of contents;
  - an informative introduction, with adequate motivation and perhaps some historical remarks: it should be accessible to a reader not intimately familiar with the topic treated;
  - a subject index: as a rule this is genuinely helpful for the reader.

For evaluation purposes, manuscripts may be submitted in print or electronic form (print form is still preferred by most referees), in the latter case preferably as pdf- or zipped ps-files. Lecture Notes volumes are, as a rule, printed digitally from the authors’ files. To ensure best results, authors are asked to use the LaTeX2e style files available from Springer’s web-server at:

<ftp://ftp.springer.de/pub/tex/latex/svmonot1/> (for monographs) and  
<ftp://ftp.springer.de/pub/tex/latex/svmultt1/> (for summer schools/tutorials).  
Additional technical instructions, if necessary, are available on request from:  
[lnm@springer.com](mailto:lnm@springer.com).



4. Careful preparation of the manuscripts will help keep production time short besides ensuring satisfactory appearance of the finished book in print and online. After acceptance of the manuscript authors will be asked to prepare the final LaTeX source files and also the corresponding dvi-, pdf- or zipped ps-file. The LaTeX source files are essential for producing the full-text online version of the book (see <http://www.springerlink.com/openurl.asp?genre=journal&issn=0075-8434> for the existing online volumes of LNM).

The actual production of a Lecture Notes volume takes approximately 12 weeks.

5. Authors receive a total of 50 free copies of their volume, but no royalties. They are entitled to a discount of 33.3% on the price of Springer books purchased for their personal use, if ordering directly from Springer.
6. Commitment to publish is made by letter of intent rather than by signing a formal contract. Springer-Verlag secures the copyright for each volume. Authors are free to reuse material contained in their LNM volumes in later publications: a brief written (or e-mail) request for formal permission is sufficient.

**Addresses:**

Professor J.-M. Morel, CMLA,  
École Normale Supérieure de Cachan,  
61 Avenue du Président Wilson, 94235 Cachan Cedex, France  
E-mail: [morel@cmla.ens-cachan.fr](mailto:morel@cmla.ens-cachan.fr)

Professor B. Teissier, Institut Mathématique de Jussieu,  
UMR 7586 du CNRS, Équipe “Géométrie et Dynamique”,  
175 rue du Chevaleret,  
75013 Paris, France  
E-mail: [teissier@math.jussieu.fr](mailto:teissier@math.jussieu.fr)

*For the “Mathematical Biosciences Subseries” of LNM:*

Professor P.K. Maini, Center for Mathematical Biology,  
Mathematical Institute, 24-29 St Giles,  
Oxford OX1 3LP, UK  
E-mail: [maini@maths.ox.ac.uk](mailto:maini@maths.ox.ac.uk)

Springer, Mathematics Editorial, Tiergartenstr. 17,  
69121 Heidelberg, Germany,  
Tel.: +49 (6221) 487-259  
Fax: +49 (6221) 4876-8259  
E-mail: [lnm@springer.com](mailto:lnm@springer.com)