

List of Publications

Mihnea Colţoiu

1. M. Colţoiu: Cohomology with compact support for real-analytic spaces. *Bolletino UMI* **18-A** (1981), 291-297.
2. M. Colţoiu, N. Mihalache: A remark on the local Steinness problem. *Math. Ann.* **264** (1983), 333-334.
3. M. Colţoiu: The Levi problem for cohomology classes. *Ann. Inst. Fourier* **34** (1984), 141-154.
4. M. Colţoiu: A note on Levi's problem with discontinuous functions. *L'Ensgn. Math.* **31** (1985), 299-304.
5. M. Colţoiu: On the embedding of 1-convex manifolds with 1-dimensional exceptional set. *Comment. Math. Helv.* **60** (1985), 548-565.
6. M. Colţoiu, N. Mihalache: Strongly plurisubharmonic exhaustion functions on 1-convex spaces. *Math. Ann.* **270** (1985), 63-68.
7. M. Colţoiu: Convexity in complex analysis. *Stud. Cerc. Mat.* **38** (1986), 28-57.
8. M. Colţoiu, N. Mihalache: On the homology groups of Stein spaces and Runge pairs. *J. reine angew. Math.* **371** (1986), 216-220.
9. M. Colţoiu: Cohomology with compact support for Stein spaces. *J. reine angew. Math.* **380** (1987), 171-177.
10. M. Colţoiu: A remark on a theorem of Vo Van Tan. *Trans. AMS* **307** (1988), 857-859.
11. M. Colţoiu: Remarques sur les reunins croissantes d'ouverts de Stein. *C.R. Acad. Sci. Paris* **307** (1988), 91-94.
12. M. Colţoiu, N. Mihalache: Pseudoconvex domains on complex spaces with singularities. *Comp. Math.* **72** (1989), 241-247.

13. M. Colţoiu: Complete locally pluripolar sets. *J. reine angew. Math.* **412** (1990), 108-112.
14. M. Colţoiu: Recouvrements de Stein finis pour les espaces complexes. *C. R. Acad. Sci. Paris* **310** (1990), 397-399.
15. M. Colţoiu: Local hyperconvexity and local hyperconcavity. In: Aspects of Mathematics 1990. Complex analysis (vol. in honour of H. Grauert).
16. M. Colţoiu: Traces of Runge domains on analytic subsets. *Math. Ann.* **290** (1991), 545-548.
17. M. Colţoiu: Some open problems concerning Stein spaces. *Rev. Roumaine Math. Pures et Appl.* **36** (1991), 225-229.
18. M. Colţoiu: n-concavity of n-dimensional complex spaces. *Math. Z.* **210** (1992), 203-206.
19. M. Colţoiu: Coverings of 1-convex manifolds with 1-dimensional exceptional set. *Comment. Math. Helv.* **68** (1993), 469-479.
20. M. Colţoiu, A. Silva: Behnke-Stein theorem on complex spaces with singularities. *Nagoya J. Math.* **137** (1995), 153-160.
21. M. Colţoiu, K. Diederich: Convexity properties of analytic complements in Stein spaces. *J. of Fourier Anal. and Appl.*, Kahane special issue, **1** (1995), 183-194.
22. M. Colţoiu: A counterexample to the q-Levi problem in \mathbb{P}^n . *J. Math. Kyoto Univ.* **36** (1996), 385-387.
23. M. Colţoiu: Stein spaces. A survey. In: Seminari di geometria. Universita Bologna 9 (1996), 71-79.
24. M. Colţoiu: On Barth's conjecture concerning $H^{n-1}(\mathbb{P}^n, A, F)$. *Nagoya Math. J.* **145** (1997), 99-123.
25. M. Colţoiu, K. Diederich: Open sets with Stein hypersurface sections in Stein spaces. *Ann. of Math.* **145** (1997), 175-182.
26. M. Colţoiu: q-convexity. A survey. In: Complex analysis and geometry XII, Pitman Research Notes in Math. vol. 366, 83-93.
27. M. Colţoiu: On the Oka-Grauert principle for 1-convex manifolds. *Math. Ann.* **310** (1998), 561-569.

- 28.** M. Colţoiu, K. Diederich: Existence of 2-complete neighbourhoods for pseudoconvex domains. *J. of Geom. Anal.* **8** (1998), 21-25.
- 29.** M. Colţoiu: On 1-convex manifolds with 1-dimensional exceptional set. *Rev. Roumaine Math. Pures et Appl.* **43** (1998), 97-104 (vol. dedicated to Prof. M. Jurchescu).
- 30.** M. Colţoiu: On hulls of meromorphy and a class of Stein manifolds. *Ann. Sc. Norm. Sup. Pisa* **28** (1999), 405-412.
- 31.** M. Colţoiu, K. Diederich: The Levi problem on Stein spaces and envelopes of holomorphy. *Math. Ann.* **316** (2000), 185-199.
- 32.** M. Colţoiu, V. Vâjăitu: Locally trivial fibrations with 1-dimensional Stein fiber over q -complete spaces. *Nagoya J. Math.* **157** (2000), 1-13.
- 33.** M. Colţoiu, K. Diederich: On the coverings of proper families of 1-dimensional complex spaces. *Mich. J. Math.* **47** (2000), 369-375.
- 34.** M. Colţoiu: On the relative homology of q -Runge pairs. *Ark. for Math.* **38** (2000), 45-52.
- 35.** M. Colţoiu, V. Vâjăitu: On the n -completeness of covering spaces with parameters. *Math. Z.* **237** (2001), 815-831.
- 36.** M. Colţoiu, K. Diederich: A remark on non-Hausdorff cohomology groups of analytic complements. *Math. Ann.* **323** (2002), 486-489.
- 37.** M. Colţoiu, M. Tibăr: Steiness of the universal covering of the complement of a 2-dimensional complex singularity. *Math. Ann.* **326** (2003), 95-104.
- 38.** M. Colţoiu: Weakly pseudoconvex domains in 1-convex spaces and the hyperintersection problem. *Math. Z.* **245** (2003), 217-220.
- 39.** M. Colţoiu: On q -Runge pairs. *Ann. Sc. Norm. Sup. Pisa (5)* **2** (2003), 231-235.
- 40.** M. Colţoiu: On the separation of the cohomology groups of increasing unions of $(1, 1)$ convex-concave manifolds. *J. Math. Kyoto Univ.* **45** (2005), 405-409.
- 41.** M. Colţoiu: Some remarks about 1-convex manifolds on which all holomorphic line bundles are trivial, *Bull. Sci. Math.* **130** (2006), 337-340.
- 42.** M. Colţoiu, K. Diederich: The Levi problem for Riemann domains over Stein spaces with isolated singularities, *Math. Ann.* **338** (2007), 283-289.
- 43.** M. Colţoiu: Convexity properties of coverings of 1-convex manifolds, *Math. Z.* **256** (2007), 461-464.

44. M. Colţoiu, M. Tibăr: On the disk theorem, *Math. Ann.* **345** (2009), 175-183.
45. M. Colţoiu: The Levi problem on Stein spaces with singularities. A survey. *Rendiconti Mat. (Roma)* **29** (2009), 341-353.
46. M. Colţoiu, J. Ruppenthal: A d-bar theoretical proof of Hartogs' extension theorem on $(n - 1)$ -complete complex spaces. *J. reine angew. Math.* **637** (2009), 41-47.
47. M. Colţoiu, C. Joiţa: The Levi problem in the blow-up. *Osaka J. Math.* **47** (2010), no. 4, 943-947.
48. G. Chiriacescu, M. Colţoiu, C. Joiţa: Analytic cohomology groups in top degrees of Zariski open sets in \mathbb{P}^n , *Math. Z.* **264** (2010), 671-677.
49. M. Colţoiu, C. Joiţa: The disk property of coverings of 1-convex surfaces, *Proceedings of the AMS* **140** (2012), no. 2, 575-580.
50. M. Colţoiu, N. Gaşitoi, C. Joiţa: On the image of an algebraic projective space. *C. R. Math. Acad. Sci. Paris* **350** (2012), no. 5-6, 239-241.
51. M. Colţoiu, C. Joiţa, M. Tibăr: q -convexity properties of the coverings of a link singularity. *Publ. Res. Inst. Math. Sci.* **48** (2012), no. 2, 409-417.
52. M. Colţoiu, C. Joiţa: On the open immersion problem. *Math. Ann.* **356** (2013), no. 3, 1203-1211.
53. M. Colţoiu, C. Joiţa: Convexity properties of coverings of 1-convex surfaces. *Math. Z.* **275** (2013), no. 3-4, 781-792.
54. M. Colţoiu, K. Diederich, C. Joiţa: On complex spaces with prescribed singularities. *Math. Res. Lett.* **20** (2013), no. 5, 857-868.
55. M. Colţoiu, C. Joiţa: On the separation of the cohomology of universal coverings of 1-convex surfaces. *Adv. Math.* **265** (2014), 362-370.
56. M. Colţoiu, C. Joiţa: On the parameterization of germs of two-dimensional singularities. *J. Geom. Anal.* **25** (2015), no. 4, 2427-2435.
57. M. Colţoiu, C. Joiţa: On Runge-curved domains in Stein spaces. *Annali della Scuola Normale Superiore di Pisa* (5), **XVI** (2016), no. 4, 1185-1192.
58. M. Colţoiu, C. Joiţa: Finite coverings of complex spaces by connected Stein open sets. *Mathematische Zeitschrift* **287** (2017), no. 3-4, 929-946.
59. M. Colţoiu, C. Joiţa: Convexity properties of intersections of decreasing sequences of q -complete domains in complex spaces. *Publ. Res. Inst. Math. Sci* **53** (2017), no. 4, 587-595.

- 60.** M. Colţoiu: Some open problems concerning q -convexity and Stein spaces. *Complex Variables and Elliptic Equations* **64** (2019), 64–67.
- 61.** M. Colţoiu, C. Joiţa: Some problems related to Levi problem for Riemann domains over Stein spaces. *Complex Variables and Elliptic Equations*, **65** (2020), 713–716.
- 62.** M. Colţoiu, C. Joiţa: Geometric Convexity Properties of Coverings of 1-Convex Surfaces. To appear in *J. Geom. Anal.*