

Publication list of Jean-Pierre Demailly
as found on Zentralblatt Math
November 2021

Demailly, Jean-Pierre

Hermitian-Yang-Mills approach to the conjecture of Griffiths on the positivity of ample vector bundles. (English. Russian original) Zbl 1464.32028

Sb. Math. 212, No. 3, 305-318 (2021); translation from Mat. Sb. 212, No. 3, 39-53 (2021).

MSC:

32J25 Transcendental methods of algebraic geometry (complex-analytic aspects) 53C07 Special connections and metrics on vector bundles (Hermite-Einstein, Yang-Mills)

Angella, Daniele (ed.); Cirici, Joana (ed.); Demailly, Jean-Pierre (ed.); Wilson, Scott (ed.)

Mini-workshop: almost complex geometry. Abstracts from the mini-workshop held October 4–10, 2020 (online meeting). (English) Zbl 07406499

Oberwolfach Rep. 17, No. 4, 1657-1691 (2020).

MSC:

00B05 Collections of abstracts of lectures 00B25 Proceedings of conferences of miscellaneous specific interest 32-06 Proceedings, conferences, collections, etc. pertaining to several complex variables and analytic spaces 32Q60 Almost complex manifolds 53Cxx Global differential geometry 58Jxx Partial differential equations on manifolds; differential operators 32J27 Compact Kähler manifolds: generalizations, classification

Demailly, Jean-Pierre (ed.); Dinh, Tien-Cuong (ed.); Hai, Le Mau (ed.); Hiep, Pham Hoang (ed.); Khoai, Ha Huy (ed.); Ma, Xiaonan (ed.); Marinescu, George (ed.); Peternell, Thomas (ed.); Sibony, Nessim (ed.)

Preface. (English) Zbl 1433.00044

Acta Math. Vietnam. 45, No. 1, 1-2 (2020).

MSC:

00B25 Proceedings of conferences of miscellaneous specific interest
32-06 Proceedings, conferences, collections, etc. pertaining to several complex variables and analytic spaces

Demailly, Jean-Pierre

Recent results on the Kobayashi and Green-Griffiths-Lang conjectures. (English) Zbl 1436.32086

Jpn. J. Math. (3) 15, No. 1, 1-120 (2020).

MSC:

32Q45 Hyperbolic and Kobayashi hyperbolic manifolds

32H30 Value distribution theory in higher dimensions

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results

53C55 Global differential geometry of Hermitian and Kählerian manifolds

14J40 n -folds ($n > 4$)

Campana, Frédéric; Demailly, Jean-Pierre; Peternell, Thomas

The algebraic dimension of compact complex threefolds with vanishing second Betti number. (English) Zbl 1436.32071

Compos. Math. 156, No. 4, 679-696 (2020).

MSC:

32J17 Compact complex 3-folds

32J10 Algebraic dependence theorems

Demailly, Jean-Pierre; Rahmati, Mohammad Reza

Morse cohomology estimates for jet differential operators. (English) Zbl 1420.32011

Boll. Unione Mat. Ital. 12, No. 1-2, 145-164 (2019).

MSC:

32H30 Value distribution theory in higher dimensions

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results

14J17 Singularities of surfaces or higher-dimensional varieties

14J40 n -folds ($n > 4$)

53C55 Global differential geometry of Hermitian and Kähler geometry

Demailly, Jean-Pierre

Extension of holomorphic functions and cohomology classes from non reduced analytic subvarieties. (English) Zbl 1404.32036

Byun, Jisoo (ed.) et al., Geometric complex analysis. In honor of Kang-Tae Kim's 60th birthday, Gyeongju, Korea, 2017. Selected papers based on the presentations at the 11th and 12th Korean conferences on several complex variables, KSCV 11 symposium and KSCV 12 symposium, July 4–8, 2016 and July 3–7, 2017. Singapore:

Springer (ISBN 978-981-13-1671-5/hbk; 978-981-13-1672-2/ebook). Springer Proceedings in Mathematics & Statistics 246, 97-113 (2018).

MSC:

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results

32D15 Continuation of analytic objects in several complex variables

32E05 Holomorphically convex complex spaces, reduction theory

Demailly, Jean-Pierre

Fano manifolds with nef tangent bundles are weakly almost Kähler-Einstein. (English) Zbl 06890455

Asian J. Math. 22, No. 2, 285-290 (2018).

MSC:

14J45 Fano varieties

14M17 Homogeneous spaces and generalizations

32C30 Integration on analytic sets and spaces, currents

32Q10 Positive curvature manifolds

32Q20 Kähler-Einstein manifolds

Demailly, Jean-Pierre

Precise error estimate of the Brent-McMillan algorithm for Euler's constant. (English) Zbl 07321502

Mosc. J. Comb. Number Theory 7, No. 4, 3-38 (2017).

MSC:

33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

11Y60 Evaluation of number-theoretic constants

Demailly, Jean-Pierre; Gaussier, Hervé

Algebraic embeddings of smooth almost complex structures. (English) Zbl 06802929

J. Eur. Math. Soc. (JEMS) 19, No. 11, 3391-3419 (2017).

MSC:

32Q60 Almost complex manifolds

32Q40 Embedding theorems

32G05 Deformations of complex structures

53C12 Foliations (differential geometry)

Demailly, Jean-Pierre

Variational approach for complex Monge-Ampère equations and geometric applications. (English) Zbl 06784933

Séminaire Bourbaki. Volume 2015/2016. Exposés 1104–1119. Avec table par noms d’auteurs de 1948/49 à 2015/16. Paris: Société Mathématique de France (SMF) (ISBN 978-2-85629-855-8/pbk). Astérisque 390, 245-275, Exp. No. 1112 (2017). For the entire collection see [Zbl 1370.00002].

MSC:

32W20 Complex Monge-Ampère operators

32Q25 Calabi-Yau theory 53C55 Hermitian and Kählerian manifolds (global differential geometry)

Cao, JunYan; Demailly, Jean-Pierre; Matsumura, Shin-ichi

A general extension theorem for cohomology classes on non reduced analytic subspaces. (English) Zbl 1379.32017

Sci. China, Math. 60, No. 6, 949-962 (2017).

MSC:

32L10 Sections of holomorphic vector bundles

32Q15 Kähler manifolds

32E05 Holomorphically convex complex spaces, reduction theory

Demailly, Jean-Pierre

Extension of holomorphic functions defined on non reduced analytic subvarieties. (English) Zbl 1360.14025

Ji, Lizhen (ed.) et al., The legacy of Bernhard Riemann after one hundred and fifty years. Volume I. Somerville, MA: International Press; Beijing: Higher Education Press (ISBN 978-1-57146-318-0/pbk; 978-1-57146-316-6/set). Advanced Lectures in Mathematics (ALM) 35, 1, 191-222 (2016).

MSC:

14C30 Transcendental methods, Hodge theory, Hodge conjecture

14F05 Sheaves, derived categories of sheaves, etc.

32C35 Analytic sheaves and cohomology groups

Demailly, Jean-Pierre

Numerical analysis and differential equations. 4th edition. (Analyse numérique et équations différentielles.) (French) Zbl 1362.65001

Grenoble Sciences. Les Ulis: EDP Sciences (ISBN 978-2-7598-1926-3/pbk; 978-2-7598-2004-7/ebook). vii, 368 p. (2016).

MSC:

65-01 Textbooks (numerical analysis) 34-01 Textbooks (ordinary differential equations) 65L05 Initial value problems for ODE (numerical methods) 65L06 Multistep, Runge-Kutta, and extrapolation methods 65D32 Quadrature and cubature formulas (numerical methods) 65H10 Systems of nonlinear equations (numerical methods)

Demailly, Jean-Pierre; Gaussier, Hervé

Algebraic embeddings of smooth almost complex structures. (English) Zbl 06802929

J. Eur. Math. Soc. (JEMS) 19, No. 11, 3391-3419 (2017).

MSC:

32Q60 32Q40 32G05 53C12

Demailly, Jean-Pierre

Variational approach for complex Monge-Ampère equations and geometric applications. (English) Zbl 06784933

Séminaire Bourbaki. Volume 2015/2016. Exposés 1104–1119. Avec table par noms d’auteurs de 1948/49 à 2015/16. Paris: Société Mathématique de France (SMF) (ISBN 978-2-85629-855-8/pbk). Astérisque 390, 245-275, Exp. No. 1112 (2017).

MSC:

32W20 32Q25 53C55

Cao, JunYan; Demailly, Jean-Pierre; Matsumura, Shin-ichi

A general extension theorem for cohomology classes on non reduced analytic subspaces. (English) Zbl 1379.32017

Sci. China, Math. 60, No. 6, 949-962 (2017).

Reviewer: Zywomir Dinew (Kraków)

MSC:

32L10 32Q15 32E05

Demailly, Jean-Pierre

Extension of holomorphic functions defined on non reduced analytic subvarieties. (English) Zbl 1360.14025

Ji, Lizhen (ed.) et al., The legacy of Bernhard Riemann after one hundred and fifty years. Volume I. Somerville, MA: International Press; Beijing: Higher Education Press (ISBN 978-1-57146-318-0/pbk; 978-1-57146-316-6/set). Advanced Lectures in Mathematics (ALM) 35, 1, 191-222 (2016).

Reviewer: Malgorzata Marciniak (Flushing)

MSC:

14C30 14F05 32C35

Demailly, Jean-Pierre

Numerical analysis and differential equations. 4th edition. (Analyse numérique et équations différentielles.) (French) Zbl 1362.65001

Grenoble Sciences. Les Ulis: EDP Sciences (ISBN 978-2-7598-1926-3/pbk; 978-2-7598-2004-7/ebook). vii, 368 p. (2016).

MSC:

65-01 34-01 65L05 65L06 65D32 65H10

Boman, Jan (ed.); Sigurdsson, Ragnar (ed.); Lerner, Nicolas; Demailly, Jean-Pierre; Atiyah, Michael; Treves, François; Helgason, Sigurdur; Grubb, Gerd; Bony, Jean-Michel; Kiselman, Christer O.; Broström, Sofia

To the memory of Lars Hörmander (1931–2012). (English) Zbl 1338.35005

Notices Am. Math. Soc. 62, No. 8, 890-907 (2015).

MSC:

35-03 46-03 47-03 01A70

Demailly, Jean-Pierre

On the cohomology of pseudoeffective line bundles. (English) Zbl 1337.32030

Fornæss, John Erik (ed.) et al., Complex geometry and dynamics. The Abel symposium 2013, Trondheim, Norway, July 2–5, 2013. Cham: Springer (ISBN 978-3-319-20336-2/hbk; 978-3-319-20337-9/ebook). Abel Symposia 10, 51-99 (2015).

MSC:

32J27

Demailly, Jean-Pierre (ed.); van der Geer, Gerard (ed.); Hacon, Christopher (ed.); Kawamata, Yujiro (ed.); Kobayashi, Toshiyuki (ed.); Miyaoka, Yoichi (ed.); Schmid, Wilfried (ed.)

Foreword. (English) Zbl 1332.00108

J. Math. Sci., Tokyo 22, No. 1, iii-iv (2015).

MSC:

00B30 14-06 32-06

Demailly, Jean-Pierre

Towards the Green-Griffiths-Lang conjecture. (English) Zbl 1327.14048

Baklouti, Ali (ed.) et al., Analysis and geometry. MIMS-GGTM, Tunis, Tunisia, March 24–27, 2014. Proceedings of the international conference. In honour of Mohammed Salah Baouendi. Cham: Springer (ISBN 978-3-319-17442-6/hbk; 978-3-319-17443-3/ebook). Springer Proceedings in Mathematics & Statistics 127, 141-159 (2015).

MSC:

14C30 32J25 14C20

Demailly, Jean-Pierre

Structure theorems for compact Kähler manifolds with nef anticanonical bundles. (English) Zbl 1326.32007

Bracci, Filippo (ed.) et al., Complex analysis and geometry. KSCV 10. Proceedings of the 10th symposium, Gyeongju, Korea, August 7–11, 2014. Tokyo: Springer (ISBN 978-4-431-55743-2/hbk; 978-4-431-55744-9/ebook). Springer Proceedings in Mathematics & Statistics 144, 119-133 (2015).

MSC:

32-02 32J27 32L05

Skoda, Henri (ed.); Demailly, Jean-Pierre; Siu, Yum-Tong

In memory of Pierre Lelong. (English) Zbl 1338.01059

Notices Am. Math. Soc. 61, No. 6, 586-595 (2014).

MSC:

01A70 32-03

Huckleberry, Alan (ed.); Peternell, Thomas (ed.); Siu, Yum-Tong; Ohsawa, Takeo; Demailly, Jean-Pierre; Barlet, Daniel; Trautmann, Günther; Lieb, Ingo

A tribute to Hans Grauert. (English) Zbl 1338.01041

Notices Am. Math. Soc. 61, No. 5, 472-483 (2014).

MSC:

01A70

Campana, F.; Demailly, J.-P.; Peternell, T.

Rationally connected manifolds and semipositivity of the Ricci curvature. (English)
Zbl 1369.53052

Hacon, Christopher D. (ed.) et al., Recent advances in algebraic geometry. A volume in honor of Rob Lazarsfeld's 60th birthday. Based on the conference, Ann Arbor, MI, USA, May 16–19, 2013. Cambridge: Cambridge University Press (ISBN 978-1-107-64755-8/pbk; 978-1-107-41600-0/ebook). London Mathematical Society Lecture Note Series 417, 71-91 (2014).

MSC:
53C55 14M22

Demailly, Jean-Pierre; Phạm, Hoàng Hiệp

A sharp lower bound for the log canonical threshold. (English) Zbl 1298.14006
Acta Math. 212, No. 1, 1-9 (2014).

Reviewer: Jan Stevens (Göteborg)

MSC:
14B05 32U05 32U25 14C20

**Demailly, Jean-Pierre; Dinew, Sławomir; Guedj, Vincent;
Hiep, Pham Hoang; Kołodziej, Sławomir; Zeriahi, Ahmed**

Hölder continuous solutions to Monge-Ampère equations. (English) Zbl 1296.32012
J. Eur. Math. Soc. (JEMS) 16, No. 4, 619-647 (2014).

Reviewer: Rafał Czyz (Krakow)

MSC:
32U05 32U40 53C55

Campana, Frédéric; Demailly, Jean-Pierre; Verbitsky, Misha

Compact Kähler 3-manifolds without nontrivial subvarieties. (English) Zbl 1293.32028
Algebr. Geom. 1, No. 2, 131-139 (2014).

Reviewer: Daniel Guan (Riverside)

MSC:
32J17 32J27 32J25

Demailly, Jean-Pierre

Pierre Lelong: a fundamental work in complex analysis and analytical geometry.
(Pierre Lelong: une œuvre fondatrice en analyse complexe et en géométrie analytique.)
(French) Zbl 1296.01027

Gaz. Math., Soc. Math. Fr. 135, 63-66 (2013).

MSC:
01A70 32-03

Demailly, Jean-Pierre

Episciences: a publishing platform for open archive overlay journals. (English) Zbl 1290.01031

Eur. Math. Soc. Newsl. 87, 31-32 (2013).

MSC:
01A80

Demailly, Jean-Pierre; Hacon, Christopher D.; Păun, Mihai

Extension theorems, non-vanishing and the existence of good minimal models. (English) Zbl 1278.14022

Acta Math. 210, No. 2, 203-259 (2013).

Reviewer: Andreas Höring (Nice)

MSC:
14E30 14J40 32J25

Demailly, Jean-Pierre

Applications of pluripotential theory to algebraic geometry. (English) Zbl 1271.32037

Bracci, Filippo (ed.) et al., Pluripotential theory. Lectures of the CIME course, Cetraro, Italy, 2011. Berlin: Springer; Florence: Fondazione CIME (ISBN 978-3-642-36420-4/pbk; 978-3-642-36421-1/ebook). Lecture Notes in Mathematics 2075. CIME Foundation Subseries, 143-263 (2013).

MSC:
32U05 32W20 32U40

Boucksom, Sébastien; Demailly, Jean-Pierre; Păun, Mihai; Peternell, Thomas

The pseudo-effective cone of a compact Kähler manifold and varieties of negative Kodaira dimension. (English) Zbl 1267.32017

J. Algebr. Geom. 22, No. 2, 201-248 (2013).

MSC:

32Q15 32J27

Demailly, Jean-Pierre (ed.); Hulek, Klaus (ed.); Peternell, Thomas (ed.)

Complex analysis. Abstracts from the workshop held September 2–8, 2012. (Komplexe Analysis.) (English) Zbl 1349.00135

Oberwolfach Rep. 9, No. 3, 2597-2656 (2012).

MSC:

00B05 00B25 32-06 14-06

Demailly, Jean-Pierre

Henri Cartan and multivariate holomorphic functions. (Henri Cartan et les fonctions holomorphes de plusieurs variables.) (French) Zbl 1294.32002

Harinck, Pascale (ed.) et al., Henri Cartan et André Weil. Mathématiciens du XX^e siècle. Journées mathématiques X-UPS, Palaiseau, France, May 3–4, 2012. Palaiseau: Les Éditions de l'École Polytechnique (ISBN 978-2-7302-1610-4/pbk). 99-168 (2012).

Reviewer: Athanase Papadopoulos (MR3014194)

MSC:

32-03 32A10 32B10 32C35 32H99

Demailly, Jean-Pierre

Hyperbolic algebraic varieties and holomorphic differential equations. (English) Zbl 1264.32022

Acta Math. Vietnam. 37, No. 4, 441-512 (2012).

Reviewer: Eberhard Oeljeklaus (Bremen)

MSC:

32Q45 32L10 53C55 14J40

Berman, Robert; Demailly, Jean-Pierre

Regularity of plurisubharmonic upper envelopes in big cohomology classes. (English) Zbl 1258.32010

Itenberg, Ilia (ed.) et al., Perspectives in analysis, geometry, and topology. On the occasion of the 60th birthday of Oleg Viro. Based on the Marcus Wallenberg symposium on

perspectives in analysis, geometry, and topology, Stockholm, Sweden, May 19–25, 2008. Basel: Birkhäuser (ISBN 978-0-8176-8276-7/hbk; 978-0-8176-8277-4/ebook). Progress in Mathematics 296, 39-66 (2012).

Reviewer: Zygomir Dinew (Kraków)

MSC:
32U05

Demailly, Jean-Pierre

Analytic methods in algebraic geometry. (English) Zbl 1271.14001

Surveys of Modern Mathematics 1. Somerville, MA: International Press; Beijing: Higher Education Press (ISBN 978-1-57146-234-3/pbk). 231 p. (2012).

Reviewer: Karl Schwede (University Park)

MSC:
14-02 14F18 14C20 14J40 32C30 32U40

Demailly, Jean-Pierre

Holomorphic Morse inequalities and the Green-Griffiths-Lang conjecture. (English) Zbl 1316.32014

Pure Appl. Math. Q. 7, No. 4, 1165-1207 (2011).

MSC:
32L20 14C30 32Q45

Demailly, Jean-Pierre

A converse to the Andreotti-Grauert theorem. (English. French summary) Zbl 1228.32020

Ann. Fac. Sci. Toulouse, Math. (6) 20, Spec. Issue, 123-135 (2011).

Reviewer: Viorel Vâjâitu (București)

MSC:
32J25 32L10 14C20 14F99

Demailly, Jean-Pierre

Structure theorems for projective and Kähler varieties. (English) Zbl 1222.32043

McNeal, Jeffery (ed.) et al., Analytic and algebraic geometry. Common problems, different methods. Lecture notes from the Park City Mathematics Institute (PCMI)

graduate summer school on analytic and algebraic geometry, Park City, UT, USA, Summer 2008. Providence, RI: American Mathematical Society (AMS) (ISBN 978-0-8218-4908-8/hbk). IAS/Park City Mathematics Series 17, 295-370 (2010).

Reviewer: Gabriela Paola Ovando (Rosario)

MSC:
32Q15

Demailly, Jean-Pierre (ed.); Hulek, Klaus (ed.); Peternell, Thomas (ed.)

Complex analysis. Abstracts from the workshop held August 29th – September 4th, 2010. (Komplexe analysis.) (English) Zbl 1209.00048

Oberwolfach Rep. 7, No. 3, 2283-2333 (2010).

MSC:
00B05 32-06 14-06 32Qxx 14Jxx 14Dxx

Demailly, Jean-Pierre

Holomorphic Morse inequalities and asymptotic cohomology groups: a tribute to Bernhard Riemann. (English. French summary) Zbl 1205.32017

Milan J. Math. 78, 265-277 (2010).

MSC:
32L10 14B05 14C17

Demailly, Jean-Pierre; Kobayashi, Shoshichi; Narasimhan, Raghavan; Siu, Yum-Tong

Cartan and complex analytic geometry. (English) Zbl 1195.01062

Notices Am. Math. Soc. 57, No. 8, 952-960 (2010).

MSC:
01A70 32-03

Demailly, Jean-Pierre; Pali, Nefton

Degenerate complex Monge-Ampère equations over compact Kähler manifolds. (English) Zbl 1191.53029

Int. J. Math. 21, No. 3, 357-405 (2010).

Reviewer: Constantin Călin (Iași)

MSC:
53C25 53C55 32J15

Demailly, Jean-Pierre

Estimates on Monge-Ampère operators derived from a local algebra inequality. (English) Zbl 1209.32024

Passare, Mikael (ed.), Complex analysis and digital geometry. Proceedings from the Kiselmanfest, Uppsala, Sweden, May 2006 on the occasion of Christer Kiselman's retirement. Uppsala: Univ. Uppsala (ISBN 978-91-554-7672-4/pbk). 131-143 (2009).

Reviewer: Daniel Barlet (Nancy)

MSC:
32W20 32U10 32S05 14B05 14C17

Demailly, Jean-Pierre (ed.); Hulek, Klaus (ed.); Mok, Ngaiming (ed.); Peternell, Thomas (ed.)

Complex analysis. Abstracts from the workshop held August 24–30, 2008. (Komplexe Analysis.) (English) Zbl 1177.14011

Oberwolfach Rep. 5, No. 3, 2165-2218 (2008).

MSC:
14-06 14Jxx 32-06 32Qxx 00B05

Demailly, Jean-Pierre; Hwang, Jun-Muk; Peternell, Thomas

Compact manifolds covered by a torus. (English) Zbl 1144.14035

J. Geom. Anal. 18, No. 2, 324-340 (2008).

Reviewer: Andreas Höring (Paris)

MSC:
14J40 14C30 32J25

Demailly, Jean-Pierre; Kosarew, Siegmund; Malgrange, Bernard

Adrien Douady and Banach analytic spaces. (Adrien Douady et les espaces analytiques banachiques.) (French) Zbl 1168.01321

Gaz. Math., Soc. Math. Fr. 113, 35-38 (2007).

MSC:
01A70 01A60 46-03

Demailly, Jean-Pierre

Kähler manifolds and transcendental techniques in algebraic geometry. (English) Zbl 1141.14007

Sanz-Solé, Marta (ed.) et al., Proceedings of the international congress of mathematicians (ICM), Madrid, Spain, August 22–30, 2006. Volume I: Plenary lectures and ceremonies. Zürich: European Mathematical Society (EMS) (ISBN 978-3-03719-022-7/hbk). 153-186 (2007).

Reviewer: Vasile Brînzănescu (București)

MSC:

14C30 32C30 32L20

Demailly, Jean-Pierre

Towards a reevaluation of mathematics and science teaching: GRIP initiatives and SLECC network classes. (Vers une réévaluation de l'enseignement des mathématiques et des sciences: initiatives du GRIP et réseau de classes SLECC.) (French) Zbl 1343.00016

Gaz. Math., Soc. Math. Fr. 110, 61-64 (2006).

MSC:

00A35 97B40 97B70

Demailly, Jean-Pierre (ed.); Hulek, Klaus (ed.); Peternell, Thomas (ed.)

Report 40/2006: Komplexe Analysis (August 27th – September 2nd, 2006). (English) Zbl 1109.14301

Oberwolfach Rep. 3, No. 3, 2399-2446 (2006).

MSC:

14-XX 32-XX 00B05

Demailly, Jean-Pierre; Eckl, Thomas; Peternell, Thomas

Line bundles on complex tori and a conjecture of Kodaira. (English) Zbl 1078.32014

Comment. Math. Helv. 80, No. 2, 229-242 (2005).

Reviewer: Eberhard Oeljeklaus (Bremen)

MSC:

32J27 32G05 32Q15

Demailly, Jean-Pierre (ed.); Hulek, Klaus (ed.); Peternell, Thomas (ed.)

Workshop: Complex analysis. (Komplexe Analysis.) (English) Zbl 1078.30501

Oberwolfach Rep. 1, No. 3, Report 42, 2171-2215 (2004).

MSC:

30-06 32-06 00B05

Demailly, Jean-Pierre; Paun, Mihai

Numerical characterization of the Kähler cone of a compact Kähler manifold. (English) Zbl 1064.32019

Ann. Math. (2) 159, No. 3, 1247-1274 (2004).

Reviewer: Vasile Oproiu (Iași)

MSC:

32Q15 32Q25 53C55 32J27

Demailly, Jean-Pierre

On the geometry of positive cones of projective and Kähler varieties. (English) Zbl 1071.14013

Collino, Alberto (ed.) et al., The Fano conference. Papers of the conference organized to commemorate the 50th anniversary of the death of Gino Fano (1871–1952), Torino, Italy, September 29–October 5, 2002. Torino: Università di Torino, Dipartimento di Matematica. 395-422 (2004).

MSC:

14C30 14C20 32J27

Demailly, Jean-Pierre; Peternell, Thomas

A Kawamata-Viehweg vanishing theorem on compact Kähler manifolds. (English) Zbl 1077.32504

J. Differ. Geom. 63, No. 2, 231-277 (2003).

Reviewer: Imre Patyi (Atlanta)

MSC:

32L20 32J27

Demailly, Jean-Pierre; Peternell, Thomas

A Kawamata-Viehweg vanishing theorem on compact Kähler manifolds. (English) Zbl 1053.32011

Yau, S.-T. (ed.), Surveys in differential geometry. Lectures on geometry and topology held in honor of Calabi, Lawson, Siu, and Uhlenbeck at Harvard University, Cambridge, MA, USA, May 3–5, 2002. Somerville, MA: International Press (ISBN 1-57146-114-0/hbk). Surv. Differ. Geom. 8, 139-169 (2003).

Reviewer: Imre Patyi (Atlanta)

MSC:

32L20 32J27

Demailly, Jean-Pierre

On the Frobenius integrability of certain holomorphic p -forms. (English) Zbl 1011.32019

Bauer, Ingrid (ed.) et al., Complex geometry. Collection of papers dedicated to Hans Grauert on the occasion of his 70th birthday. Berlin: Springer. 93-98 (2002).

MSC:

32Q15 32J25

Bertin, José; Demailly, Jean-Pierre; Illusie, Luc; Peters, Chris

Introduction to Hodge theory. Transl. from the French by James Lewis and Chris Peters. (English) Zbl 0996.14003

SMF/AMS Texts and Monographs. 8. Providence, RI: American Mathematical Society (AMS). ix, 232 p. (2002).

Reviewer: Werner Kleinert (Berlin)

MSC:

14C30 14-02 14F17 14D07 81T30 58A14 14D05 14J32

Campana, Frédéric; Demailly, Jean-Pierre

L^2 -cohomology on the coverings of a compact complex manifold. (French) Zbl 1066.32012

Ark. Mat. 39, No. 2, 263-282 (2001).

Reviewer: A. Diaz-Cano (Madrid)

MSC:

32C35 32C99 32T99 58J20

Demailly, Jean Pierre

Refoundation of mathematics in France. (Italian) Zbl 1106.01306

Lett. Mat. Pristem 42, 10-14 (2001).

Reviewer: Cristina Irimia (Iași)

MSC:
01A60

Demailly, Jean-Pierre; Peternell, Thomas; Schneider, Michael

Pseudo-effective line bundles on compact Kähler manifolds. (English) Zbl 1111.32302

Int. J. Math. 12, No. 6, 689-741 (2001).

MSC:
32J27 32Q15 32Q57

Demailly, Jean-Pierre

Multiplier ideal sheaves and analytic methods in algebraic geometry. (English) Zbl 1102.14300

Demailly, J.P. (ed.) et al., School on vanishing theorems and effective results in algebraic geometry. Lecture notes of the school held in Trieste, Italy, April 25–May 12, 2000. Trieste: The Abdus Salam International Centre for Theoretical Physics (ISBN 92-95003-09-8/pbk). ICTP Lect. Notes 6, 1-148 (2001).

Reviewer: Olaf Teschke (Berlin)

MSC:
14F17 32J25 32L10 14C20 32Q15 32L20

Demailly, J.P. (ed.); Göttsche, L. (ed.); Lazarsfeld, R. (ed.)

School on vanishing theorems and effective results in algebraic geometry. Lecture notes of the school held in Trieste, Italy, April 25–May 12, 2000. (English) Zbl 0986.00053

ICTP Lecture Notes. 6. Trieste: The Abdus Salam International Centre for Theoretical Physics. vii, 393 p. (2001).

MSC:
00B25 14-06

Demailly, Jean-Pierre; Kollár, János

Semi-continuity of complex singularity exponents and Kähler-Einstein metrics on Fano orbifolds. (English) Zbl 0994.32021

Ann. Sci. Éc. Norm. Supér. (4) 34, No. 4, 525-556 (2001).

Reviewer: Alexandr Yu.Rashkovsky (Khar'kov)

MSC:

32S05 14B05 14J45 32U05 32U25

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A subadditivity property of multiplier ideals. (English) Zbl 1077.14516

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MSC:

14E99 14J17

Demailly, Jean-Pierre

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Reviewer: A.V.Chernecky (Odessa)

MSC:

32D15 32U05

Demailly, Jean-Pierre; El Goul, Jawher

Hyperbolicity of generic surfaces of high degree in projective 3-space. (English) Zbl 0966.32014

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Reviewer: Min Ru (Houston)

MSC:

32Q45 32H30

Demailly, Jean-Pierre

L^2 methods and effective results in algebraic geometry. (Méthodes L^2 et résultats effectifs en géométrie algébrique.) (French) Zbl 0962.14014

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Reviewer: Taras E.Panov (Moskva)

MSC:
14F43 14C30 14J60 14F05 14C20 32J25 14N30

Demailly, Jean-Pierre

Pseudoconvex-concave duality and regularization of currents. (English) Zbl 0960.32011
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Reviewer: Viorel Vâjâitu (București)

MSC:
32F10 32C30 32J25

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The algebraic dimension of compact complex threefolds with vanishing second Betti number. (English) Zbl 0910.32032

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Reviewer: E.Oeljeklaus (Bremen)

MSC:
32J17 14C20

Demailly, Jean-Pierre

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MSC:
32Q45 32J10 32L05 32H30 32-02

Hirzebruch, Friedrich; Demailly, Jean-Pierre; Lannes, Jean

Conference in honor of Henri Cartan. (Journée en l'honneur de Henri Cartan.) (French) Zbl 0932.00086

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MSC:
00B30 00B15 32-06

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Reviewer: J.Eichhorn (Greifswald)

MSC:

32Q45 32L10 14J40 53C55

Demailly, Jean-Pierre

Hyperbolic varieties and algebraic differential equations. (Variétés hyperboliques et équations différentielles algébriques.) (French) Zbl 0901.32019

Gaz. Math., Soc. Math. Fr. 73, 3-23 (1997).

Reviewer: Vasile Brînzănescu (București)

MSC:

32Q45 32-02 32H30 32A22

Demailly, Jean-Pierre; El Goul, Jawher

Meromorphic partial projective connections and hyperbolic projective varieties. (Connexions méromorphes projectives partielles et variétés algébriques hyperboliques.) (French. Abridged English version) Zbl 0898.32016

C. R. Acad. Sci., Paris, Sér. I 324, No. 12, 1385-1390 (1997).

Reviewer: Raul Ibañez (Bilbao)

MSC:

32Q45 14H10 32A20 32C25 53A20 53C55

Demailly, Jean-Pierre

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MSC:

65L05 65L06 65D32 65H10 65-01 34-01

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Reviewer: N.Blažić (Beograd)

MSC:

14F17 32L05 14F43 14F05 32L20 32C30 32W20

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Reviewer: W.Kleinert (Berlin)

MSC:

14C30 14F17 14-02 14D07 13A35 58A14 14D05 81T30 14J32

Demailly, Jean-Pierre; Peternell, Thomas; Schneider, Michael

Compact Kähler manifolds with Hermitian semipositive anticanonical bundle. (English) Zbl 1008.32008

Compos. Math. 101, No.2, 217-224 (1996).

MSC:

32J27 53C55

Demailly, Jean-Pierre

Effective bounds for very ample line bundles. (English) Zbl 0862.14004

Invent. Math. 124, No.1-3, 243-261 (1996).

Reviewer: I.Coandă (București)

MSC:

14C20 14F05 14F17 32C20

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Holomorphic line bundles with partially vanishing cohomology. (English)
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Reviewer: U.N.Bhosle (Bombay)

MSC:
14F17 32L20 14F05 14C22

Demailly, Jean-Pierre

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MSC:
14C20 32J27 14F05

Demailly, Jean-Pierre

L^2 -methods and effective results in algebraic geometry. (English) Zbl 0845.14004

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Reviewer: F.Kirwan (Oxford)

MSC:
14C20 14F05

Demailly, Jean-Pierre; Passare, Mikael

Residual currents and fundamental class. (Courants résiduels et classe fondamentale.) (French) Zbl 0851.32013

Bull. Sci. Math. 119, No.1, 85-94 (1995).

Reviewer: Vasile Brînzănescu (București)

MSC:
32C30 32C36 58A25 32C15

Demailly, Jean-Pierre

Semicontinuity properties of cohomology and of Kodaira-Iitaka dimension. (Propriétés de semi-continuité de la cohomologie et de la dimension de Kodaira-Iitaka.) (French. Abridged English version) Zbl 0851.32015

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Reviewer: Vasile Brînzănescu (București)

MSC:

32C35 35G05

Demailly, Jean-Pierre

Ordinary differential equations. Theoretical and numerical aspects. (Gewöhnliche Differentialgleichungen. Theoretische und numerische Aspekte. Aus d. Franz. übers. von Mathias Hecke.) (German) Zbl 0869.65042

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Reviewer: R.D.Grigorieff (Berlin)

MSC:

65L05 65L06 65D32 65H10 65-01 34-01

Demailly, Jean-Pierre

Regularization of closed positive currents of type (1,1) by the flow of a Chern connection. (English) Zbl 0824.53064

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Reviewer: I-Hsun Tsai (Taipei)

MSC:

53C55 32C30

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Algebraic approximations of holomorphic maps from Stein domains to projective manifolds. (English) Zbl 0861.32006

Duke Math. J. 76, No.2, 333-363 (1994).

Reviewer: I.Serb (Cluj-Napoca)

MSC:
32E10 14P20 32F45

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Reviewer: D.Laksov (Stockholm)

MSC:
14J30 14C20 32J17 14F35 53C55 14E20

Demailly, Jean-Pierre; Peternell, Thomas; Schneider, Michael

Kähler manifolds with numerically effective Ricci class. (English) Zbl 0884.32023

Compos. Math. 89, No.2, 217-240 (1993).

Reviewer: Antonella Nannicini (MR 95b:32044)

MSC:
32J27 14J40 32Q15 53C55

Demailly, Jean-Pierre

A numerical criterion for very ample line bundles. (English) Zbl 0783.32013

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Reviewer: J.-P. Demailly (Saint-Martin d'Hères)

MSC:
32J15 32L10 32C30

Demailly, Jean-Pierre

Monge-Ampère operators, Lelong numbers and intersection theory. (English) Zbl 0792.32006

Ancona, Vincenzo (ed.) et al., Complex analysis and geometry. New York: Plenum Press. The University Series in Mathematics. 115-193 (1993).

Reviewer: E.Outerelo (Madrid)

MSC:
32C30 32W20 32U05

Demailly, Jean-Pierre

Holomorphic Morse inequalities on q -convex manifolds. (English) Zbl 0771.32011

Several complex variables, Proc. Mittag-Leffler Inst., Stockholm/Swed. 1987-88, Math. Notes 38, 245-257 (1993).

Reviewer: E.Ballico (Povo)

MSC:

32F10 32C35 32J99 32W20

Demailly, Jean-Pierre

Regularization of closed positive currents and intersection theory. (English)
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Reviewer: A.Yu.Rashkovsky (Khar'kov)

MSC:

32J25 32C30 32S60

Demailly, Jean-Pierre

Positive currents and intersection theory. (Courants positifs et théorie de l'intersection.)
(French) Zbl 0771.32010

Gaz. Math., Soc. Math. Fr. 53, 131-159 (1992).

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MSC:

32C30 58A25 32J25 14C17

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Reviewer: E.J.Straube (College Station)

MSC:

32L05

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32L20 14F17 32L10

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Holomorphic Morse inequalities. (English) Zbl 0755.32008

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Reviewer: B.Nowak (Łódź)

MSC:

32C35 58E05 32L10 53C07

Blel, Mongi; Demailly, Jean-Pierre; Mouzali, Mokhtar

Sur l'existence du cône tangent à un courant positif fermé. (About the existence of the tangent cone with positive closed current). (French) Zbl 0724.32005

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Reviewer: H.-J.Reiffen (Osnabrück)

MSC:

32C30 32B15

Demailly, Jean-Pierre

Cohomology of q -convex spaces in top degrees. (English) Zbl 0682.32017

Math. Z. 204, No.2, 283-295 (1990).

Reviewer: J.P.Demailly

MSC:

32F10

Bedford, Eric; Demailly, Jean-Pierre

Two counterexamples concerning the pluricomplex Green function in \mathbb{C}^n . (English) Zbl 0681.32014

Indiana Univ. Math. J. 37, No.4, 865-867 (1988).

Reviewer: M.Stoll

MSC:

32U05 32T99 31C10

Demailly, Jean-Pierre

Vanishing theorems for tensor powers of a positive vector bundle. (English)
Zbl 0651.32019

Proc. 21st Int. Taniguchi Symp., Katata/Japan, Conf., Kyoto/Japan 1987, Lect. Notes Math. 1339, 86-105 (1988).

Reviewer: P.E.Newstead

MSC:

32L20 32L05

Demailly, Jean-Pierre

Vanishing theorems for tensor powers of an ample vector bundle. (English)
Zbl 0647.14005

Invent. Math. 91, No.1, 203-220 (1988).

Reviewer: H.Lange

MSC:

14F05 32L20

Demailly, Jean-Pierre

Sur les théorèmes d'annulation et de finitude de T. Ohsawa et O. Abdelkader.
(On vanishing and finiteness theorems of T. Ohsawa and O. Abdelkader). (French) Zbl 0691.32009

Sémin. d'analyse P. Lelong - P. Dolbeault - H. Skoda, Paris, 1985/86, Lect. Notes Math. 1295, 48-58 (1987).

Reviewer: Résumé

MSC:

32L20 32H35 32C35 32F10 53C55

Demailly, Jean-Pierre; Laurent-Thiébaud, Christine

Formules intégrales pour les formes différentielles de type (p,q) dans les variétés de Stein. (Integral formulas for differential forms of type (p,q) in Stein manifolds). (French) Zbl 0632.32004

Ann. Sci. Éc. Norm. Supér. (4) 20, No. 4, 579-598 (1987).

Reviewer: E.J.Akutowicz

MSC:

32A30 30E20 32A25 32E10

Demailly, Jean-Pierre

Une preuve simple de la conjecture de Grauert-Riemenschneider. (A simple proof of the Grauert-Riemenschneider conjecture). (French) Zbl 0629.32026 Sémin. d'analyse P. Lelong - P. Dolbeault - H. Skoda, Paris 1985/86, Lect. Notes Math. 1295, 24-47 (1987).

Reviewer: D.Barlet

MSC:

32J25 32J99 32L15 32L20

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Acta Math. 159, 153-169 (1987).

Reviewer: P.Caraman

MSC:

32E10 32U05 32C30 31C10 31C15

Demailly, Jean-Pierre

Théorèmes d'annulation pour la cohomologie des puissances tensorielles d'un fibré vectoriel positif. (Vanishing theorems for cohomology groups of tensor powers of a positive vector bundle). (French) Zbl 0627.32022

C. R. Acad. Sci., Paris, Sér. I 305, 419-422 (1987).

Reviewer: M.Putinar

MSC:

32L20 32M10

Demailly, Jean-Pierre

Mesures de Monge-Ampère et mesures pluriharmoniques. (Monge-Ampère measures and pluriharmonic measures). (French) Zbl 0595.32006

Math. Z. 194, 519-564 (1987).

MSC:

32A25 32C30 32F45 32U05 31C10 32E10

Demailly, Jean-Pierre

Mesures de Monge-Ampère et mesures pluriharmoniques. (Monge-Ampère measures and pluriharmonic measures). (French) Zbl 0602.31006

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Reviewer: D.Armitage

MSC:

31C10 32E10 32U05

Demailly, Jean-Pierre

Sur l'identité de Bochner-Kodaira-Nakano en géométrie hermitienne. (The Bochner-Kodaira-Nakano identity in hermitian geometry). (French) Zbl 0594.32031

Sémin. analyse P. Lelong - P. Dolbeault - H. Skoda, Années 1983/84, Lect. Notes Math. 1198, 88-97 (1986).

Reviewer: A.Pankov

MSC:

32L05 32Q99 53C55

Demailly, Jean-Pierre

Un exemple de fibré holomorphe non de Stein à fibre \mathbb{C}^2 au-dessus du disque ou du plan. (An example of a non-Stein holomorphic fiber bundle over the disk or the plane, with fiber \mathbb{C}^2). (French) Zbl 0594.32030

Sémin. analyse P. Lelong - P. Dolbeault - H. Skoda, Années 1983/84, Lect. Notes Math. 1198, 98-104 (1986).

Reviewer: A.Pankov

MSC:

32L05 32E10

Demailly, Jean-Pierre

Fonction de Green pluricomplexe et mesures pluriharmoniques. (French)
Zbl 0900.31004

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MSC:
31C10 32T99 32A25

Demailly, Jean-Pierre

Champs magnétiques et inégalités de Morse pour la d'' -cohomologie. (Magnetic fields and Morse inequalities for d'' -cohomology). (French) Zbl 0595.58014

C. R. Acad. Sci., Paris, Sér. I 301, 119-122 (1985).

Reviewer: G. Roos

MSC:
58E35 32J25 32L10

Demailly, Jean-Pierre

Mesures de Monge-Ampère et caractérisation géométrique des variétés algébriques affines. (French) Zbl 0579.32012

Mém. Soc. Math. Fr., Nouv. Sér. 19, 124 p. (1985).

MSC:
32C30 32U05 32A22 32J10 32J99

Demailly, Jean-Pierre

Propagation des singularités des courants positifs fermés. (French) Zbl 0566.32005

Ark. Mat. 23, 35-52 (1985).

MSC:
32C30 32D15

Demailly, Jean-Pierre

Champs magnétiques et inégalités de Morse pour la d'' -cohomologie. (Magnetic fields and Morse inequalities for d'' -cohomology). (French) Zbl 0565.58017

Ann. Inst. Fourier 35, No.4, 189-229 (1985).

MSC:
58E05

Demailly, Jean-Pierre

Sur les transformées de Fourier de fonctions continues et le théorème de de Leeuw-Katznelson-Kahane. (On Fourier transforms of continuous functions and a theorem of de Leeuw-Katznelson-Kahane). (French) Zbl 0571.43003

C. R. Acad. Sci., Paris, Sér. I 299, 435-438 (1984).

MSC:
43A25

Demailly, Jean-Pierre

Sur la propagation des singularités des courants positifs fermés. (English)
Zbl 0551.32009

Analyse complexe, Proc. Journ. Fermat - Journ. SMF, Toulouse 1983, Lect. Notes Math. 1094, 53-64 (1984).

MSC:
32C30 32Sxx

Demailly, Jean-Pierre; Gaveau, Bernard Majoration statistique de courbure d'une variété analytique. (French) Zbl 0533.53054 Sémin. d'Analyse P. Lelong-P. Dolbeault-H. Skoda, Années 1981/83, Lect. Notes Math. 1028, 96-124 (1983).

MSC:
53C55 53C65 32C30

Demailly, Jean-Pierre

Sur la structure des courants positifs fermés. (French) Zbl 0529.32006

Inst. Elie Cartan, Univ. Nancy I 8, 52-62 (1983).

MSC:
32C30 30C80 14C30 32A30

Demailly, Jean-Pierre

Constructibilité des faisceaux de solutions des systèmes différentiels holonomes. (D'après Masaki Kashiwara). (French) Zbl 0529.32003

Sémin. d'Analyse P. Lelong - P. Dolbeault - H. Skoda, Années 1981/83, Lect. Notes Math. 1028, 83-95 (1983).

MSC:

32A45 58J15 14F10 58J10 32L05

Demailly, Jean-Pierre

Estimations L^2 pour l'opérateur $\bar{\partial}$ d'un fibré vectoriel holomorphe semi-positif au-dessus d'une variété Kählérienne complète. (French) Zbl 0507.32021

Ann. Sci. Éc. Norm. Supér. (4) 15, 457-511 (1982).

MSC:

32L20 32L05 53C55 32L10 32U05

Demailly, Jean-Pierre

Formules de Jensen en plusieurs variables et applications arithmétiques. (French) Zbl 0493.32003

Bull. Soc. Math. Fr. 110, 75-102 (1982).

MSC:

32A25 30C80 32A15 32C30 32A30

Demailly, Jean-Pierre

Courants positifs extrémaux et conjecture de Hodge. (French) Zbl 0488.58001

Invent. Math. 69, 347-374 (1982).

MSC:

58A25 58A14 14C30 14C20

Demailly, Jean-Pierre

Scindage holomorphe d'un morphisme de fibrés vectoriels semi-positifs avec estimations L^2 . (French) Zbl 0481.32011

Sémin. P. Lelong - H. Skoda, Analyse, Années 1980/81, et: Les fonctions plurisousharmoniques en dimension finie ou infinie, Colloq. Wimereux 1981, Lect. Notes Math. 919, 77-107 (1982).

MSC:

32L05 53C55 32D15 32T99

Demailly, Jean-Pierre

Relations entre les différentes notions de fibrés et de courants positifs. (French) Zbl 0481.32010

Sémin. P. Lelong - H. Skoda, Analyse, Années 1980/81, et: Les fonctions plurisousharmoniques en dimension finie ou infinie, Colloq. Wimereux 1981, Lect. Notes Math. 919, 56-76 (1982).

MSC:
32L05 32C30 58A25

Demailly, Jean-Pierre

Extremal positive currents and Hodge conjecture. (English) Zbl 0476.58001

Invent. Math. 69 (1982) 347-374

MSC:
58A25 58A14 14C30 14C20

Demailly, Jean-Pierre

Sur les nombres de Lelong associés à l'image directe d'un courant positif fermé. (French) Zbl 0457.32005

Ann. Inst. Fourier 32, No.2, 37-66 (1982).

MSC:
32C30 58A25

Demailly, Jean-Pierre; Skoda, Henri

Relations entre les notions de positivités de P. A. Griffiths et de S. Nakano pour les fibrés vectoriels. (French) Zbl 0454.55011

Sémin. P. Lelong - H. Skoda, Analyse, Années 1978/79, Lect. Notes Math. 822, 304-309 (1980).

MSC:
55R25 32L05 32L15

Demailly, Jean-Pierre

Construction d'hypersurfaces irréductibles avec lieu singulier donné dans \mathbb{C}^n . (French) Zbl 0414.32004

Ann. Inst. Fourier 30, No.3, 219-236 (1980).

MSC:
32Sxx 14J17 32A22 32C25

Demailly, Jean-Pierre

Fonctions holomorphes à croissance polynomiale sur la surface d'équation $e^x + e^y = 1$.
(French) Zbl 0412.32007

Bull. Sci. Math., II. Ser. 103, 179-191 (1979).

MSC:
32A22 32U05 32A10 32A07 32D15 32E30

Demailly, Jean-Pierre

Fonctions holomorphes bornées ou à croissance polynomiale sur la courbe $e^x + e^y = 1$.
(French) Zbl 0409.32009

C. R. Acad. Sci., Paris, Sér. A 288, 39-40 (1979).

MSC:
32D15 32A22 32U05

Demailly, Jean-Pierre

Différents exemples de fibrés holomorphes non de Stein. (French) Zbl 0418.32011

Sémin. Pierre Lelong - Henri Skoda (Anal.), Année 1976/77, Lect. Notes Math. 694, 15-41 (1978).

MSC:
32E10 32L05

Demailly, Jean-Pierre

Un exemple de fibré holomorphe non de Stein à fibre \mathbb{C}^2 ayant pour base le disque ou le plan. (French) Zbl 0372.32012

Invent. Math. 48, 293-302 (1978).

MSC:
32L05 32U05

139 publications authored by Jean-Pierre-Demailly