Liste des Travaux scientifiques

Việt-Anh NGUYÊN

A. Thèses

- THÈSE DE DOCTORAT

  Problème de Lu Qi-Keng, Théorie H^p et Équation de Cauchy-Riemann. 164 pages, soutenue le 6 mars 2001 à l'Université de Marseille I, France. Les résultats de cette thèse font l'objet des Articles 1–5 ci-dessous.

- HABILITATION À DIRIGER DES RECHERCHES

  Holomorphie séparée, Dynamique complexe et Théorèmes de Hodge–Riemann. soutenue le 25 juin 2007 à l'Université Paris-Sud XI, Orsay, France.

B. Publications

[1] *The Lu Qi-Keng conjecture fails for strongly convex algebraic complete Reinhardt domains in* $\mathbb{C}^n$ $(n \geq 3)$.
Proc. Amer. Math. Soc., **128** (2000), no. 6, 1729–1732.

[2] (avec E.-H. Youssfi)
Lipschitz estimates for the $\overline{\partial}$*-equation on the minimall balls.*
Michigan Math. J., **49** (2001), no. 2, 299–323.

[3] (avec E.-H. Youssfi)
Estimations Lipschitziennes optimales pour l'équation $\overline{\partial}$ *dans une classe de domaines convexes.*
C. R. Acad. Sci. Paris Sér. I Math., **t. 332** (2001), no. 12, 1065–1070.

[4] *Fatou and Korányi-Vági type theorems on the minimal balls.*
Publ. Mat., **46** (2002), no. 1, 49–75.

[5] (avec E.-H. Youssfi)
Optimal Lipschitz estimates for the $\overline{\partial}$*-equation on a class of convex domains.*
Ann. Fac. Sci. Toulouse (6), **12** (2003), no. 2, 179–243.

[6] (avec P. Pflug)
Extension theorems of Sakai type for separately holomorphic and meromorphic functions.
Ann. Polon. Math., **82** (2003), no. 2, 171–187.

[7] *A remark on a question of Lempert–Henkin.*
Int. J. of Math., **14** (2003), no. 10, 1091–1095.

[8] (avec P. Pflug)
A boundary cross theorem for separately holomorphic functions.
Ann. Polon. Math., **84** (2004), no. 3, 237–271.

[9] *A general version of the Hartogs extension theorem for separately holomorphic mappings between complex analytic spaces.*
Ann. Scuola Norm. Sup. Pisa Cl. Sci. serie V, **4** (2005), no. 2, 219–254.

[10] *Algebraic degrees for iterates of meromorphic self-maps of* $\mathbb{P}^k$.
Publ. Math., **50** (2006), no. 2, 457–473.

[11] (avec T.-C. Dinh)
The mixed Hodge–Riemann bilinear relations for compact Kähler manifolds.
Geom. Funct. Anal., **16** (2006), no. 4, 838–849.

[12] (avec P. Pflug)
Boundary cross theorem in dimension 1.
Ann. Polon. Math., **90** (2007), no. 2, 149–192.

[13] (avec P. Pflug)
Generalization of a theorem of Gonchar.
Ark. Mat., **45** (2007), no. 1, 105–122.

[14] (avec T.-C. Dinh et N. Sibony)
On thermodynamics of rational maps on the Riemann sphere.
Ergodic Theory Dyn. Syst., **27** (2007), no. 4, 1095–1109.

[15] (avec P. Pflug)
Envelope of holomorphy for boundary cross sets.
Arch. Math. (Basel), **89** (2007), no. 4, 326–338.

[16] *A unified approach to the theory of separately holomorphic mappings.*
Ann. Scuola Norm. Sup. Pisa Cl. Sci. serie V, **7** (2008), no. 2, 181–240.

[17] (avec T.-C. Dinh et N. Sibony)
Dynamics of horizontal-like maps in higher dimensions.
Adv. Math., **219** (2008), no. 5, 1689–1721.

[18] (avec P. Pflug)
Boundary cross theorem in dimension 1 *with singularities.*
Indiana Univ. Math. J., **58** (2009), no. 1, 393–414.

[19] (**Article de survol**)
Recent developments in the theory of separately holomorphic mappings.
Colloq. Math., **117** (2009), no. 2, 175–206.

[20] (avec P. Pflug)
Cross theorems with singularities.
J. Geom. Anal., **20** (2010), no. 1, 193–218.

[21] *Conical plurisubharmonic measure and new cross theorems.*
J. Math. Anal. Appl., **365** (2010), no. 2, 429–434.
La preuve du résultat principal de cet article contient une erreur. Une preuve correcte est annoncée ici:
Corrigendum to "Conical plurisubharmonic measure and new cross theorems " [J. Math. Anal. Appl. **365** *(2010) 429–434]*
J. Math. Anal. Appl., **403**, (2013), no. 1, page 330.
La preuve correcte et détaillée est mise en ligne ici:

Corrigendum: Conical plurisubharmonic measure and new cross theorems;
(math.CV).arXiv:0901.3222, 17 pages.

[22] (avec T.-C. Dinh et N. Sibony)
Exponential estimates for plurisubharmonic functions and stochastic dynamics.
J. Differential Geom., **84** (2010), no. 3, 465–488.

[23] (avec T.-C. Dinh)
Comparison of dynamical degrees for semi-conjugate meromorphic maps.
Comment. Math. Helv. **86** (2011), no. 4, 817–840.

[24] *Green currents for quasi-algebraically stable meromorphic self-maps of* $\mathbb{P}^k$.
Publ. Math. **56** (2012), no. 1, 127–146.

[25] (avec T.-C. Dinh et N. Sibony)
Heat equation and ergodic theorems for Riemann surface laminations.
Math. Ann. **354** (2012), no. 1, 331–376.

[26] (avec T.-C. Dinh et T.-T. Truong)
On the dynamical degrees of meromorphic maps preserving a fibration.
Commun. Contemp. Math. **14** (2012), no. 6, 18 pages.

[27] (avec T.-C. Dinh)
On the Lefschetz and Hodge-Riemann theorems.
Illinois J. Math. **57** (2013), no. 1, 121-144.

[28] (avec T.-C. Dinh et N. Sibony)
Entropy for hyperbolic Riemann surface laminations I.
"Frontiers in Complex Dynamics: a volume in honor of John Milnor's 80th birthday", (A. Bonifant, M. Lyubich, S. Sutherland, editors), 569-592, (2014), Princeton University Press.

[29] (avec T.-C. Dinh et N. Sibony)
Entropy for hyperbolic Riemann surface laminations II.
"Frontiers in Complex Dynamics: a volume in honor of John Milnor's 80th birthday", (A. Bonifant, M. Lyubich, S. Sutherland, editors), 593-622, (2014), Princeton University Press.

[30] (avec T.-C. Dinh)
Characterization of Monge-Ampère measures with Hölder continuous potentials.
J. Funct. Anal. **266** (2014), no. 1, 67–84.

[31] (avec T.-C. Dinh et T.-T. Truong)
Equidistribution for meromorphic maps with dominant topological degree.
Indiana Univ. Math. J., **64** no. 6., (2015), 1805–1828.

[32] (avec D. Coman et G. Marinescu)
Hölder singular metrics on big line bundles and equidistribution.
Int. Math. Res. Not. IMRN, 2016, (2016), no. 16, 5048–5075.

[33] *Oseledec multiplicative ergodic theorems for laminations.*
Mem. Amer. Math. Soc. vol. **246**, no. 1164, Amer. Math. Soc., Providence, RI, 2017, pp. 1–174.

[34] (avec T.-C. Dinh et X.-N. Ma)
Equidistribution speed for Fekete points associated with an ample line bundle.
Ann. Sci. Éc. Norm. Supér. (4) **50** (2017), no. 3, 545–578.

[35] (avec T.-C. Dinh et X.-N. Ma)
On the asymptotic behavior of Bergman kernels for positive line bundles.
Pacific J. Math. **289** (2017), no. 1, 71–89.

[36] (avec T.-C. Dinh et T.-T. Truong)
Growth of the number of periodic points for meromorphic maps.
Bull. Lond. Math. Soc. **49** (2017), no. 6, 947–964.
Dédié au Professeur Ngô Viêt Trung.

[37] *Directed harmonic currents near hyperbolic singularities.*
Ergodic Theory Dyn. Syst., **38** (2018), 3170–3187.

[38] *Singular holomorphic foliations by curves I: Integrability of holonomy cocycle in dimension 2.*
Invent. Math. **212** (2018), no. 2, 531–618.
Dédié au Professeur Nessim Sibony à l'occasion de son 70ième anniversaire.

[39] (avec T.-C. Dinh)
Large deviations principle for some beta-ensembles.
Trans. Amer. Math. Soc. **370** (2018), no. 9, 6565–6584.

[40] (avec D. Coman et G. Marinescu)
Approximation and equidistribution results for pseudo-effective line bundles.
J. Math. Pures Appl. (9), **115** (2018), 218–236.

[41] (avec T.-C. Dinh et D.-V. Vu)
Super-potentials, densities of currents and number of periodic points for holomorphic maps.
Adv. Math., **331** (2018), 874–907.
Dédié au Professeur Lê Tuân Hoa à l'occasion de son 60ième anniversaire.

[42] (**Article de survol**)
Ergodic theory for Riemann surface laminations: a survey.
Dans: Byun J., Cho H., Kim S., Lee KH., Park JD. (eds) Geometric Complex Analysis.
Springer Proc. Math. Stat. vol **246**. Springer, Singapore (2018), 291–327.
Dédié au Professeur Kang-Tae Kim à l'occasion de son 60ième anniversaire.

C. ARTICLES À PARAÎTRE

[43] *Geometric characterization of Lyapunov exponents for Riemann surface laminations.*
J. Geom. Anal., `https://doi.org/10.1007/s12220-017-9919-8,` (2019), 37 pages.
Dédié en hommage au Professeur Gennadi M. Henkin.

D. PRÉPUBLICATION

[44] (avec T.-C. Dinh)
Distribution of scattering resonances for generic Schrödinger operators.
`math-ph, arXiv:1709.06375`, (2017), 19 pages.

[45] (avec T.-C. Dinh et N. Sibony)
Unique ergodicity for foliations on compact Kähler surfaces.
`math-CV, math.DS, arXiv:1811.07450`, (2018), 50 pages.

[46] *Singular holomorphic foliations by curves II: Negative Lyapunov exponent.*
`math-CV, math.DS, arXiv:1812.10125,` (2018), 35 pages.

E. TRAVAUX EN COURS

[47] (avec D. Coman et G. Marinescu)
Equidistribution for holomorphic sections of line bundles vanishing along subvarieties.