

CURRICULUM VITAE

Name : **VÉRON**

Given names : **Laurent**, Marie, Benoît, Élie

Born on 26 of February 1949, Brazzaville (Congo)

Professional adress :

Mathématiques et Physique Théorique. CNRS-UMR 7350 Faculté des Sciences
et Techniques Université François Rabelais

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POSITIONS

Assistant Professor 1972-1980. Université François Rabelais, TOURS.

Visiting Professor 1980-1981. Northwestern University, Ill.

Associate Professor 1981-1984. Université François Rabelais, TOURS.

Full Professor since 1984. Highest Level Exceptional Class since 1999. Université François Rabelais, TOURS.

Emeritus Professor since 2014. Université François Rabelais, TOURS.

UNIVERSITARY TITLES

- Baccalauréat, June 1967.

- Bachelor in Mathematics at Paris 6, June 1970.

- Master in Pure Mathematics at Paris 6, under the supervision of H. Brézis, June 1971.

- Agrégation of Mathematics 1972.

- "Doctorat d'État ès Sciences" at Université Paris 6, June 23, 1980.

Main thesis

Asymptotic behaviour and singularities of solutions of nonlinear partial differential equations.

Second thesis

Spectrum of the Laplacian and length of periodic geodesics.

Jury

L. SCHWARTZ President

H. BREZIS Adviser

Y. CHOQUET-BRUHAT 2nd thesis adviser

Ph. BENILAN

M. HERVÉ

J. ROBERT

HONORIFIC TITLES

Grand Prix SERVANT awarded by the "Académie des Sciences" in 2006.

MR Citation Database : 2212 citations by 921 authors (21 may 2015).

Google Scholars Citations Database : 4 887 citations, h index =32.

Order of Honors : Chevalier de l'Ordre National du Mérite by decree (11/11/2010).
Officier des Palmes Académiques.

LOCAL RESPONSABILITIES

- Vice-president of the Scientific Council at Université François Rabelais- Sciences Section- 1994-1998.

- Responsable of the Master in Mathematics at Université François Rabelais : 1985-1991.

- Director of Mathematics Department : 1978-1980.

- Director of Laboratory of Mathematics and Applications from 1985 to 1990.

- Director of CNRS Laboratory, UMR 6083 Mathematics and Theoretical Physics 1994-2002.

- Co-Director of the Mathematic-Physics-Computer Science Graduate School of the Universities of Orléans and Tours since January 2012.

ACTIVITIES AS A SUPERVISOR

-Adviser of 42 master theses from 1983 to 2011.

- Theses supervisor

1 - A. GMIRA - 3rd cycle - defended in 1982

2 - Y. RICHARD - 3rd cycle - defended in 1987

3 - A. BRADA - 3rd cycle - defended in 1987

4 - M. GUEDDA - PhD Thesis- defended in 1987

5- I. MOUTOUSSAMY - PhD Thesis- defended in 1987

6 - A. GMIRA - Doctorat d'État ès Sciences - defended in 1989

7 - M. BOUHAR - PhD Thesis- defended in 1991

8 - B. GUERCH - PhD Thesis- defended in 1991

9 - J.R. LICOIS - PhD Thesis- defended in 1994

10 - J. FABBRI - PhD Thesis- defended in 1994

11 - M. GRILLOT - PhD Thesis- defended in 1996

12 - E. CHASSEIGNE - PhD Thesis- defended in 2000.

13 - Y. BELAUD - PhD Thesis- defended in 2002.

14 - R. BORGHOL - PhD Thesis- defended in 2005.

15 - W. EL SAYED - PhD Thesis- defended in 2008.

- 16 - T. NGUYEN-PHUOC - PhD Thesis, defended in 2012.
- 17 - H. CHEN - PhD Thesis, co-tutella with P. Felmer (Univ. Chile), defended in January 2014.
- 18 - H. NGUYEN QUOC - PhD Thesis- defended in 2014.
- 19 - O. BOUKARABILA - PhD Thesis, scheduled in 2015.
- 20 - N. AGUIRE - PhD Thesis, co-tutella with M. Garcia-Huidobro (PUC Chile), scheduled in 2018.

INTERNATIONAL ACTIVITIES

- Coordinator with J. L. Vazquez of an Integrated Action of scientific cooperation between France and Israel 1993-1995.
- Coordinator with M. Marcus (Technion-Haifa) of several Integrated Actions of scientific cooperation between France and Israel; Program Keshet/Arc-en-ciel 1997-2001.
- Coordinator with R. Manassevich (Univ. Chile in Santiago) of ECOS action n°C99E06, 1999-2002.
- Coordinator with M. Marcus (Technion, Haifa) of the French-Israeli cooperation network "Nonlinear Elliptic Equations and Ginzburg- Landau Functional" accepted in 2005, renewed in 2007.
- Main Coordinator of INTAS program # 05-1000008-7921, "Nonlinear phenomena related to stability, transition to instability, and catastrophes in continuum mechanics ", 2007-2009. Cooperation with Steklov Inst. (Moscow), Lomonosov University (Moscow) and IAMM (Donetsk, Ukr.) .
- Associate coordinator of the French group in European Program,"Initial Training Network" FIRST (Fronts and Interfaces in Science and Technology) June 2010.
- Main coordinator of the Math-Amsud Program,"Quasilinear Equations and Singular Problems" QUESP accepted for 2 years 2013-2014. Cooperation with Univ. Catolica, Univ. de Chile in Santiago and Univ. of Buenos-Aires.
- Scientific Coordinator of the ECOS Program,"Singular Quasilinear Problems", accepted for 3 years 2015-2018. Cooperation with Univ. Catolica, Univ. de Chile in Santiago and Univ. of Buenos-Aires.

ORGANISATION OF SCIENTIFIC MEETINGS

- Organizer of the workshop *Équations aux Dérivées Partielles de la Géométrie et de la Physique Mathématique-Tours* , June 1992.
- Co-Organizer with C. Barrabès of the *Journées Tourangelles de Mathématiques et Physique Mathématique-Tours* , June 1994.
- Co-Organizer with J. Busca du *Colloque Equations et Systèmes Quasi-linéaires Elliptiques et Paraboliques* at the CIRM in Luminy, September 2001.

- Member of the Scientific Committee of *International Conference on Partial Differential Equations* organised in september 2003 in Crimea by the Ukrainian Académy of Sciences of Ukraine and the institutes Steklov (Moscow) and Weiestrass (Berlin).
- Member of the Organizing Committee of the *Congrès d'Analyse Non Linéaire en l'honneur de H. Brezis*, organized in June 2004 in Paris.
- Member of the Program Committee of *The Fourth International Conference on Differential and Functional Differential Equations*, organized by Steklov Institute, the Moscow mathematical Society and the Aviation Institute. Moscow August 2005.
- Organizer de la *Conférence en l'honneur de Jim Serrin à l'occasion de la remise du titre de docteur honoris causa par l'Université François Rabelais*, Tours June 2005.
- Member of the Scientific Committee of *International Conference on Partial Differential Equations* organized in September 2005 in Crimea by the Ukrainian Académy of Sciences of Ukraine and the institutes Steklov (Moscow) and Weiestrass (Berlin).
- Co-Organizer of the sub-program PDE du *Congrès Franco-Roumain de mathématiques Appliquées*, August 2006 in Chambéry.
- Member of the Program Committee of *International Conference for the 100th birthday of Academician Lopatinskiï* , organisé par l' Institut de Mathématiques de l'Université de Lwov (Ukraine) in September 2006.
- Member of the Organizing Committee of the *Journées Tourangelles de Relativité* organized in May-June 2007 in Tours.
- Member of the Program Committee of *International Conference on Nonlinear Partial Differential Equations*, in Memory of Acad. I. V. Skrypnik, organisé par l'Académie des Sciences d'Ukraine et l'IAMM de Donetsk en septembre 2007.
- Member of the Program Committee of *The Fifth International Conference on Differential and Functional Differential Equations*, organized by Steklov Institute, the Moscow Mathematical Society and the University of Friendship between People. Moscow August 2008.
- Organizer of the workshop *Quasilinear Equations and Singular Problem* in the framework of the European Network **FIRST** Tours 4-5-6 June 2012.

INTERNATIONAL AND EDITORIAL RESPONSABILITIES

- Math. Reviews
- Occasionnal expert for CONICYT (CNRS Chilien)
- Occasional expert for Israel Science Foundation
- Member of Editorial Board of **Advanced Nonlinear Studies**.
- Member of Editorial Board of **Asymptotic Analysis**.

- Member of Editorial Board of **International Journal of Dynamical Systems and Differential Equations**.
- Member of Editorial Board of **Nonlinear Analysis, Theory, Methods and Applications**.
- Member of Editorial Board of **Pure and Applied Functional Analysis**.
- Member of Editorial Board of **Moroccan Journal of pure and applied Analysis**.
- Editor with H. Berestycki, M. Bertsch, F. Browder, B. Peletier, L. Nirenberg de **Perspectives in Nonlinear Partial Differential Equations In Honor of Haïm Brezis**. Contemporary Math. **446**, American Mathematical Society (2007).

INVITATIONS TO CONFERENCES

- 1- NATO Summer School on Nonlinear Problems and Calculus of Variations, Bruxelles (1975).
- 2- Journées d'Analyse Non Linéaires, Besançon (1977).
- 3- Journées Pierre de Fermat, Toulouse (1979).
- 4- Séminaires sur les Equations Hyperboliques et les Systèmes de Réaction Diffusion, El Escorial (1980).
- 5- 1er Colloque Franco-Espagnol sur les E.D.P. Non Linéaires, Madrid (1981).
- 6- Conf. Internationale sur l'Analyse et les Equations Différentielles, Lisbonne (1982).
- 7- NATO Summer Institute on Systems of Nonlinear P.D.E., Oxford (1982).
- 8- Journées d'Analyse Non Linéaire -Lille-1983.
- 9- Amer. Math. Soc. Summer Institute on Nonlinear Functional Analysis, Berkeley (1983).
- 10- I.C.T.P. Colloquium on Nonlinear Semigroup, Trieste (1984).
- 11- S. Banach Semester on P.D.E., Varsovie (1984).
- 12- 2ème Colloque Franco-Espagnol sur les E.D.P. Non Linéaires, Paris (1985).
- 13- Math. Sci. Res. Inst. Program on Nonlinear Diffusion Equations, Berkeley (1986).
- 14- Workshop on Nonlinear Differential Equations, Leiden (1987).
- 15- Conference on Nonlinear Evolution Equations, Visegrad-Budapest (1988).
- 16- International Conference on Nonlinear Diffusion Equations, Gregynog, Wales (1989).
- 17- S.Banach Semester on P.D.E., Varsovie (1990).
- 18- Colloquium on Differential Equations an Applications, Budapest (1991).
- 19- Colloquium on P.D.E. of Math. Physics, Donestsk (1991).
- 20- Colloque the Franco-Israeli program on PDE., Paris (1992).
- 21- 2ème Colloque Franco-Taiwanais sur les E.D.P. non linéaires, Paris (1992).

- 22- Conference on Nonlinear Boundary Problems, Donesk-Simferopol (1993).
- 23- International Conference on Free Boundary Problems, Tolède (1993).
- 24- Colloque Franco-Roumain Interactions Math. Pures-Appl., Paris (1994).
- 25 -Conference on PDE with Applications to Geometry, ICTP, Trieste (1995).
- 26- International Conference on Diff. Equa., Moscou (1996).
- 27- Conférence d'Analyse Non-Linéaire, Tetouan (1996).
- 28- Colloque EDP non-linéaires, Amiens (1997).
- 29- Conference on Nonlinear Partial Differential Equations, Kiev (1997).
- 30- Workshop on Positive Solutions of Elliptic and Parabolic Differential equations, Technion-Haifa, (1997).
- 31- MSRI Program on Stochastic Analysis (PDE Session), Berkeley, (1997).
- 32- Haifa-Technion (Intern. workshop in honor of M. Marcus 60 th), (1997).
- 33- Oberwolfach (Geometric Questions in PDE), (1998).
- 34- Singularities and Interfaces in Nonlinear PDE's, CIRM-Luminy, (1998).
- 35- INdAM, workshop Nonlinear PDE's with Singular Data, Rome (1999).
- 36- Journées E.D.P., Bourges (1999).
- 37- Conf. internationale sur les E.D.P., Fes (1999).
- 38- International Conf. on Differential and Funct. Diff Equ., Moscou (1999).
- 39- USA-CHILE Worshop in Nonlinear Analysis. Vina del Mar, Chili (2000).
- 40- Workshop on Nonlinear PDE, Tel-Aviv (2000).
- 41- Workshop on Singularities in Parabolic Equations, Cortona, It. (2000).
- 42- Journées Elliptiques de Lyon (2000).
- 43- Congrès Petrovskii -Moscou (2001).
- 44- Congrès Commun AMS-SMF, Lyon (2001).
- 45- Journées d'Orléans en EDP non-linéaires (2002).
- 46- International Conference in honor of J. Serrin, Perugia (2002).
- 47- 2nd International Conf. on Diff. and Funct. Diff Equ., Moscou (2002).
- 48- 1st TMR meeting, Heraklion (2002).
- 49- International Conference on "Nonlinear Evolution Problems", Rome (2003).

- 50- Conférence pour commémorer le vingt-cinquième anniversaire de la disparition de Guido Stampacchia, Paris 6 (2003).
- 51- International Conference on Partial Differential Equations, Alushta, Crimea (2003).
- 52- Fifth European Conference on Elliptic and Parabolic Problems, Gaeta, Italie (2004).
- 53 - Infinite energy solutions of partial differential equations and related topics, Cortona (It.), 30 mai-3 juin 2005.

- 54 - France-Taiwan Joint Conference on Nonlinear PDE and Related topics, Taipei, Juillet 18-22 (2005).
- 55 - EQUADIFF 11 International conference on differential equations, Bratislava (Slov.), 25 -29 Juillet 2005.
- 56 - Fourth International Conference on Differential and Functional Differential Equations, Moscou, 14-21 août 2005.
- 57 - International Conference Nonlinear Partial Differential Equations, Alushta (Ukr.), 12-19 septembre 2005.
- 58 - International workshop on nonlinear elliptic equations (Madrid. Univ-Autónoma), 6-13 mai 2006.
- 59 - 31st Conference on Stochastic Processes and their Applications, Paris.
- 60 - Congrès Franco-Roumain de Mathématiques Appliquées, Chambéry.
- 61 - International Conference on Modern Mathematical Aspects in Sciences and Technology, Paros (Grèce) .
- 62 - International Conference for the 100th birthday of Academician Lopatinskii, Lwov-Lviv, Ukraine.
- 63- Conference for the sixtieth birthday of J. L. Vazquez, juin 2007. El Escorial, Espagne.
- 64- Conference for the sixtieth birthday of I. Peral, avril 2007. Salamanca, Espagne.
- 65- International Conference on Partial Differential Equations and Applications, 28 mai - 1er Juin, 2007, à Beijing Normal University, Beijing, Chine.
- 66- Conference in memory of I. V. Skrypnik, septembre 2007 Yalta, Ukraine.
- 67- *Liouville theorems and detours*, INdAM Conference - May 18 - 25, 2008, Cortona, Italie.
- 68- International Workshop on Partial Differential Equations for the 80 th birthday of James Serrin June 25-26, 2008, Perugia Italie.
- 69- Journées d'Analyse Non-Linéaire, *Quatre générations sous un même toit*, Paris 3-4 July 2008.
- 70- Fifth International Conference on Differential and Functional Differential Equations , August 18-24, 2008, Moscow, Russie.
- 71- LMS Regional Meeting and Workshop, September 15-17, 2008, Swansea, UK.
- 72- Colloque Potential Theory and analysis of Growth processes, 12-17 January 2009, Orléans.
- 73- 2ème Spring school in Nonlinear EDP : régularité, singularité et applications des équations elliptiques et paraboliques, Tetouan, Maroc, 1-7 avril (2009).
- 74- Workshop "Equations d'évolution non-linéaires" for Fred Weissler 60th birthday, 30 Mars-1 April 2009, IHP Paris.
- 75- International Conference Variational and Topological Methods in Nonlinear Analysis, San Antonio, Texas, September 24-26, 2009.

- 76- International Symposium on "Nonlinear PDE and Applications, Catane, June 22 to 24, 2009.
- 77- Nonlinear Problems in PDEs Università degli Studi di Parma, May 2010.
- 78- Research workshop "Nonlinear PDE and Boundary Value Problems with Measure Data", Haifa-Technion, <http://www.math.technion.ac.il/pincho/Veron/>, March 2010.
- 79- International Conference on Nonlinear PDE, septembre 2010 Dnepropetrovsk, Ukraine.
- 80- European Workshop "Blow-up and singularities", Bratislava, March 2011.
- 81- Conference on Nonlinear PDEs, Università de Perugia, May 2012.
- 82- Workshop on Image Processing and Reaction-Diffusion, Mount Zion Hotel, Jerusalem, ISRAEL, September 2012.
- 83- Conference « Nonlinear Partial Differential Equations », Donetsk, Ukraine, septembre 2013.
- 84- Conference on « Recent developments of nonlinear PDEs » Australian National University, Canberra, November 2013.
- 85- Recent Trends in Nonlinear Partial Differential Equations and Applications Celebrating Enzo Mitidieri's 60th birthday, Trieste (It.), May 28-30 (2014).
- 86- French-Algerian conference, PDE and Applications, Poitiers 16-19 June 2014.
- 87- Singular and Degenerate Evolution Problems, Cortona (It.), June 23-27 (2014).
- 88- Nonlinear Evolution Problems, Roma (It.), June 25-27 (2014).
- 89- Seventh International Conference on Differential and Functional Differential Equations, Moscow (Rus.) August 22-27 (2014).
- 90- International Conference on Local and Nonlocal Nonlinear Partial Differential Equations, Shanghai (Chine) April 22-27 (2015).

RESEARCH INVITATIONS

- 1- Nice (1976), one week.
- 2- Madrid-Univ. Complutense (1979), one week.
- 3- **Visiting Professor**- Northwestern University- (1980-1981), one year.
- 4- Madison Math. Res. Center (1980), one week.
- 5- Purdue University (1980 et 1981), one week.
- 6- Lexington University (1981), one week.
- 7- Madrid-Univ. Complutense (1981), three weeks.
- 8- Univ. de Santander (1981), two weeks.
- 9- Madrid-Univ. Complutense et Autônoma (1983), two weeks.
- 10- Varsovie-S. Banach Center (1984), two weeks.
- 11- **Invited Professor**-Trieste-International School for Advanced Studies (1984), three months.
- 12- Madrid-Univ. Complutense (1984), one week.
- 13- Purdue Univ. Center for Appl. Math. **Invited Professor** (1986), one month.
- 14- Minneapolis-Univ. of Minnesota (1986), one week.
- 15- Argonne National Lab. (1987), two weeks.
- 16- Tel Aviv Univ. (1989), three weeks.
- 17- Madrid-Univ. Complutense (1987), one week.
- 18- Madrid-Univ. Autônoma-Action Intégrée (1991), one week.
- 19- Madrid-Univ. Autônoma-Action Intégrée (1992), one week.
- 20- Haifa-Technion (1993), two weeks.
- 21- Moscou-Université Lomonossov (1993), one week.
- 22- Haifa-Technion (1994), two weeks.
- 23- **Professor Visitant**- Madrid-Univ. Autônoma (1994-95), one month.
- 24- Haifa-Technion (1995), two weeks (PICS-EDP 296).
- 25- Haifa-Technion (1997), one month (PICS-EDP 296).
- 26- Budapest (1997), une semaine.
- 27- Haifa-Technion (1998), two weeks (PICS-EDP 296).
- 28- Haifa-Technion (1999), two weeks (Keshet/Rainbow program).
- 29- Tetouan (1999), one week.
- 30- Haifa-Technion (2000), two weeks, supported by Institute Adv. Studies in Math.
- 31- Haifa-Technion (2001), two weeks, supported by Institute Adv. Studies in Math.
- 32- **Invited Professor**-Beyrouth janvier (2002), two weeks. Master course on Nonlinear Parabolic Equations.

- 33- Haifa-Technion (2002), three weeks, supported by Institute Adv. Studies in Math.
- 34- Haifa-Technion (2003), two weeks, supported by RTN-TMR.
- 35- In the framework of RTN-TMR "Nonlinear partial differential equations describing front propagation and other singular phenomena" post-doctoral courses at Technion, mars 2004.
- 36- Universités Rutgers et Cornell (USA), 10 days 2004.
- 37- Haifa-Technion (janvier 2005), three weeks, supported by RTN-TMR.
- 38- **Invited Professor**-Bucarest (juin 2005)- Scoala Normala Superioara, Bucarest. Master course (Regularity of Solutions of Second Order Elliptic equations).
- 39- Haifa-Technion (January-March 2006), supported by the Franco-Israeli program and RTN.
- 40- Madrid, Univ. Autònoma , two weeks, supported by Europ. Sc. Fund.
- 41- Rome, Univ. Roma 2 (10-17 December 2006).
- 42- Haifa-Technion (mai puis septembre 2007), three weeks, supported by the Franco-Israeli program.
- 43- Haifa-Technion (juin 2008), three weeks, supported by the Franco-Israeli program.
- 44- Santiago du Chili, décembre 2008, two weeks, supported by CONICYT.
- 44- Haifa-Technion (mai 2009), three weeks, supported by the Franco-Israeli program.
- 46- Madrid, Univ. Complutense, doctoral course, june 2009.
- 47- Haifa-Technion (mai 2010), three weeks, supported by Israel Science Foundation.
- 48- Santiago de Chile, Univ. Pontificia Catolica, supported by ECOS (Chile-France Cooperation), January 2011.
- 49- Haifa-Technion (December 2012), two weeks, supported by Israel Science Foundation.
- 50- Santiago de Chile, Univ. Pontificia Catolica, supported by Fondecyt, January 2012.
- 51 - Australian National University, Canberra, Novembre 2013.
- 52- Univ. Roma I, Sapienza, March 2014.
- 53- Santiago du Chili, janvier 2013, Universidad Pontificia Catolica, supported by FONDECYT.
- 54 - Pontificia Universidad Catolica, Santiago, Janvier 2014. supported by MathAmsud.
- 55 - Pontificia Universidad Catolica, Santiago, Janvier 2015. supported by MathAmsud.

SCIENTIFIC PRODUCTION

- 163 articles published or to appear.

- Three books published, one in preparation

1-*Singularities of Solutions of Second Order Quasilinear Equations*

Pitman Research Notes in Mathematics Series **353**, pp 1-388 (1996) Addison-Wesley-Longman. 2-*Elliptic Problems Involving Measures*

Chapitre 8, pp 593-712, in **Handbook of Differential Equations, Vol. 1. Stationary Partial Differential Equations** (2004) M. Chipot and P. Quittner eds., Elsevier Science.

3- *Nonlinear Second Order Elliptic Equations Involving Measures*

Collaboration M. Marcus

De Gruyter Series in Nonlinear Analysis and Applications. **21** xiii+pp. 1-262 (2013).

4- *Local and Global Aspects of solutions of Quasilinear Elliptic Equations*

World Scientific. Series on Partial Differential Equations and Applications
Publication initially scheduled in 2012 but postponed up to 2016.

NATIONAL AND INTERNATIONAL COLLABORATIONS

Phd Students are not considered in the following list

COLLABORATIONS 1975-2000.

- H. BREZIS (Univ. Paris 6 et IUF)
- P. BARAS (Univ. Chambéry)
- J.I. DIAZ (Univ. Complutense, Madrid)
- A. FRIEDMAN (Columbus Univ.)
- J.L. VAZQUEZ (Univ. Autónoma, Madrid)
- S. KAMIN (Univ. Tel Aviv)
- S. KICHENASSAMY (Univ. Reims)
- H. MATANO (Univ. Tokyo) et X. Y. CHEN (Univ. Hiroshima)
- V. KONDRATIEV (Univ. Lomonossov, Moscou)
- A. RATTO (Univ. Cagliari) et M. RIGOLI (Univ. Milan)
- V. GALAKTIONOV (Univ. Bath)
- A. GMIRA (Univ. Tetouan) and M. GUEDDA (Univ. Amiens)
- P. FORGACS (Univ. Tours)
- B. HELFFER (Univ. Orsay)
- S. I. POHOZAEV (Inst. Steklov, Moscou)
- C. YARUR (Univer. de Santiago de Chile)

CURRENT COLLABORATIONS

- L. BOCCARDO (Univ. Roma 1).
- M.F. BIDAUT-VERON (Univ. Tours).
- A. SHISHKOV (Inst. Appl. Math. Mech, Donetsk).
- K. GKIKAS (Univ. Chile).
- H. CHEN (New-York-Shanghai University, Shanghai).
- M. GARCIA-HUIDOBRO, Univ. Pontificia Catolica, Santiago de Chile.

<http://www.phys.univ-tours.fr/~veronl>