

# Curriculum Vitae

**André Leroy**

**Date of birth:** 7<sup>th</sup> May 1955

**Professional address:** Université d'Artois, Faculté Jean Perrin, 23 rue Jean Souvraz, 62300 Lens, France. **email address:** andreleroy55@gmail.com

**Web pages** <http://leroy.perso.math.cnrs.fr/> and <http://users.skynet.be/sky83817/>

## Degrees

Ph.D. Dérivations algébriques, Université de Mons, Hainaut (Belgique), 1985  
Habilitation à diriger des recherches, Valenciennes (France), 1992.

## Positions held

- Assistant Université de Mons 1978-1985.
- Maître de conférences Université de Mons, 1985-1988.
- ATER Université de Lille, 1988-1989.
- Maître de conférences, Université de Valenciennes, 1989-1994.
- Professeur Université d'Artois, 1994-2022
- Professeur émérite 2022-

## Stays in foreign universities (cumulating more than six months)

- Post doc at Berkeley University, USA and different stays in this university from 1986 till 2001.
- Warsaw University, Poland (Many stays from 1984 latest stay in March 2017).
- Ohio University, USA (Many stays from 1995, latest stay in May 2020).
- Shorter stays during these last 4 years: India (New Delhi, Chandigarh) Brazil (Sao Paulo, San Carlos,...), Egypt (Cairo, Damietta)

## Ph.D. Students

N'kanza Mfundu, University of Mons, Centralisateurs de l'indéterminée, 1987 (Cotutelle).

Adem Ozturk, University of Mons, Contributions to the Arithmetic of 2-firs (2003).

Jonathan Delenclos, Noncommutative symmetric Functions and Wedderburn polynomials, Université d'Artois (2008).

Dilshad Alghazzawi, Commutatively and symmetrically closed subsets in Rings, Université d'Artois.

Ahmed Bouzidi (co-responsible with A. Chechem in USTHB)

Guanglin Ma, Nankin (China) One year from March 2023 till March 2024 (stage doctoral, co-responsible with Y. Wang Nanjin, China).

## Post-doc

Here is the list of the postdoctoral stays (more than 6 months) that I was responsible for these last few years. These stays were funded by grants from different organisms.

- (1) Arda Kor, Gebze University, Turkey (2017-2018), 6 months.
- (2) Mona Abdi, Shahrood University of Technology, Iran (2018-2019), 9 months.
- (3) Mehdi Ebrahimpour, Vali-e-asr Rajsanjan University, Iran (2018-2019), 9 months.
- (4) Ahmed Djamel Bouzidi, (2018-2019) USTHB Alger 9 months).
- (5) Mehrdad Nasernejad, Iran Nine months, ends in July 2022.
- (6) Remy Farouk, Egypt (6 months 2024-2025).
- (7) André Duarte, Brazil (3 months, 2025)
- (8) Huda Merdach, Egypt. (6 months 2025-2026)

## Scientific responsibilities

### 1) Editor

- Journal of Algebra and its Applications.
- North-Western European Journal of Mathematics.
- Proceedings of the NCRA, III (Contemp. Math. 637) , Proceedings of the NCRA IV (Jacodemath) and Proceedings of NCRA VI (Contemp. Math 727) Proceedings of the NCRA
- Galois Journal of Mathematics.
- Proceedings of the NCRA, III (Contemp. Math. 637) , Proceedings of the NCRA IV (Jacodemath) and Proceedings of NCRA VI (Contemp. Math 727), Proceedings of NCRA VII and QFRC NCRA VIII and QFRC and NCRA IX and QFRC (published in Contemporary Math series of the AMS).

2) Member of the National committee of the universities (CNU), terminated 4 years ago.

3) Referee for many journals (Algebra, coding theory, general Mathematics) and reviewer for the Mathscinet.

4) Member of the Jury of many thesis the latest ones: Bouzidi Djamel (Alger, 2021);

Dyksha Mukhija (Lens, 2021); Xavier Mary (Thèse d'habilitation, Nanterre June 2022)

Mehrdad Nasernejad (Thèse d'Habilitation Université d'Artois, November 2023).

Antonin Assoun, Sur le problème de Galois inverse régulier des corps non commutatifs. (Lille, décembre 2026)

## Main talks since 2012

- (1) Racines de polynômes gauches et transformations pseudo-linéaires, Limoges Janvier 2012
- (2) Coding theory and noncommutative rings, Warsaw March 2012
- (3) Idempotents in rings extensions, Jeddah April 2012
- (4) McCoy and strongly McCoy rings, Jeddah April 2012
- (5) Factorizations in Ore extensions, Columbus May 2012
- (6) Factorizations in Ore extensions, Alger Juin 2012

- (7) McCoy and strongly McCoy rings, Bialystok (Poland), Juin 2012
- (8) Singular matrices as products of idempotents matrices, Akron (USA) October 2012
- (9) Idempotents in Ring Extensions, Sheffield (B.M.C.), March 2013. Decompositions of singular matrices in Products of idempotents, Bedlewo, Poland July 2013
- (10) PLT, coding and factorizations in Ore extensions, Saint Louis October 2013
- (11) Euclidean pairs Euclidean rings and continuant polynomials, July 2014, Ubatuba, Brasil.
- (12) Continuant polynomials, December 2014, Manipal, India.
- (13) Euclidean pairs, decomposition into idempotents and related topics, Montevideo 2015.
- (14) Decomposition into products of idempotents and related topics, Alger Octobre 2015.
- (15) Quasi permutation matrices and product of idempotents, Denison Conference Columbus (Ohio), May 2016.
- (16) Decomposition of nonnegative singular matrices into products of nonnegative idempotents, Warsaw March 2017.
- (17) Quasi-Euclidean rings, Porto April 2017.
- (18) Decomposition of singular matrices, Manipal (India) May 2018.
- (19) Commutatively closed sets, Aurangabad (India) May 2018.
- (20) Generalization of the Jacobson radical, Conference, New trends in rings theory Istanbul, Juin 2018 (Turkey )
- (21) Product of idempotent matrices, Porto September 2018.
- (22) Decomposition of singular matrices, Conference in Yazd (Iran) January 2019.
- (23) Noncommutative rings in coding theory, Tehran (Iran) January, 2019.
- (24) Cimpa school in Cairo, Lectures on Ore extensions, December 2022.
- (25) Periodic and potent elements February 2023, Sao Paulo.
- (26) Evaluating skew polynomials, Curitiba (Brazil), February 2023.
- (27) Decompositions of singular elements into products of idempotents, Ohio State University (Denison conference), May 2024.
- (28) Potent, periodic and semiclean elements, GRGR, Ubatuba, July 2024.
- (29) Evaluations of skew iterated polynomials, 27 Brazilian Algebra Meeting · IME-USP July 2024.
- (30) To be completed.

**languages:** French, English, Polish, Spanish, Dutch (in decreasing order)

### **Organizations of events**

Every two years I organize an international meeting called NCRA (NonCommutative Rings and their Applications). Usually this meetings have between 50-80 participants from all over the world. The proceedings of these events are published (Cont. Math. series or special issues of some journals,... ). In 2023 this was the 8 editions of this event.

I also co-organize with Ahmed Laghribi the Algebra seminar in Lens.

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### Scientific responsibilities

1) Editor

- Journal of Algebra and its Applications.
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### Organizations of events

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### Publications

- (1) Un corps de caractéristique nulle, algébrique sur son centre, muni d'une involution  $S$  et d'une  $S$ -dérivation algébrique et non interne, *Compte-rendu de l'académie des sciences Paris*, 293 (1981), pp. 235-236
- (2) Anneaux simples différentiels, *actes du VIème Congrès du groupement des mathématiciens d'expression latine*, pp. 247-250

- (3) Sur les anneaux simples différentiels, en collaboration avec J.P. Tignol et P. Van Praag, *Communications in algebra*, (10), n° 12, pp. 1307-1314
- (4) Dérivations algébriques sur les corps gauches, *Bull. Soc. Math. de Belgique*, fascicule 1, série B, 1984, pp. 91-103
- (5) Dérivées logarithmiques pour une S-dérivation algébrique, *Communications in algebra*, (13) 1985, pp. 85-99
- (6) Quelques remarques à propos des S-dérivations, en collaboration avec J. Matczuk, *Communications in algebra*, (13) 1985, pp. 1229-1244
- (7) Dérivations algébriques, thèse, Université de l'Etat à Mons, 1985 Dérivations et automorphismes d'anneaux premiers, en collaboration avec J. MATCZUK. *Communications in algebra*, ( 13 ), 1985, pp. 1245-1266
- (8) Ensembles algébriques dans les corps gauches et dérivées logarithmiques, *Actes du VIIème Congrès du groupement des mathématiciens d'expression latine*, Coimbra, 1985
- (9) S-dérivations algébriques sur les anneaux premiers Springer lectures notes in mathematics, vol. (1197), 1986, pp. 114-120
- (10) S-dérivations algébriques sur les corps gauches et sur les anneaux premiers, *Communications in algebra*, ( 14 ), 1986, pp. 1473-1479
- (11) Les octaves de Cayley ont l'élimination linéaire 2, *Bull. Soc. Math. De Belgique*, vol.( 39 ), Fasc. 2, série B, 1987, pp. 237-241
- (12) Sur le centralisateur de l'indéterminée dans le corps des fractions des anneaux de polynômes gauches, en collaboration avec N'Kanza Mfundu, *Bull. de l'école des Sciences de l'Académie Royale de Belgique*, vol. 73, 1987, pp. 84-86
- (13) Algebraic conjugacy classes and skew polynomial rings, in collaboration with T.Y. LAM, *perspectives in ring theory, proceedings of the 1987 NATO workshop in Antwerp*, Reidel, 1988, 50 pages
- (14) On the Gelfand-Kirillov dimension of normal localization and twisted polynomial rings, in collaboration with J. Matczuk and J. Okninski, *perspectives in ring theory proceedings of the NATO workshop in Antwerp*, Reidel, 1988, 205-214
- (15) Vandermonde and Wronskian matrices over division rings, in collaboration with T.Y. Lam, *Bull. Soc. Math. de Belgique*, vol. 40 , série A, 1988, pp. 281-286
- (16) Vandermonde and Wronskian matrices over division rings, with T.Y. Lam *Journal of algebra*, vol.119, n° 2, décembre 1988, pp. 308-336
- (17) Invariant and semi-invariant polynomials in skew polynomial rings, in collaboration with T.Y. Lam, K.H.Leung, J. Matczuk, in *ring theory 1989 (in honour of S.A. Amitsur)*, ed. L. Rowen, Israel Mathematical conference proceedings, pp. 153-203, Kluwer Academic Publishers.
- (18) Gelfand-Kirillov dimension of certain localizations, with J. MATCZUK. *Archi. der Math.* Vol. 53 , 439-447 (1989)
- (19) Prime ideals of Ore extensions, with J. Matczuk. *Communications in algebra*, 19(7), 1893-1907 (1991)
- (20) Homomorphisms between Ore extensions, with T.Y. LAM. *Contemporary Mathematics* Vol. 124 , 83-110 (1992)
- (21) The extended centroid and X-inner automorphism of Ore extensions, with J.Matczuk. *Journal of algebra*, vol. 145 , 143-177, n° 1, January 1992

- (22) Hilbert 90 theorems over division rings, with T.Y. Lam Transactions of the American Mathematical Society, vol. 345, 595-622, n° 2, October 1994  
Normes et theorems 90 d'Hilbert paru dans "note di informatica I fisica" CERFIM LOCARNO, vol. 7, décembre 1994, pp. 197-200
- (23) Structure et arithmétique des extensions de Ore, mémoire présenté en vue d'obtenir l'habilitation à diriger des recherches.
- (24) Pseudo linear transformation and evaluation in Ore extensions Bull. Soc. Math. Belg. Vol. 2, n° 3, May 1995, 321-347
- (25) Primitivity of skew polynomial and skew Laurent polynomial rings, with J. Matczuk Communications in Algebra, 24(7), 1996, pp. 2271-2284
- (26) Recognition and Computations of Matrix Rings, with T.Y. Lam Israel Journal of Mathematics 96, 1996, pp. 379-397
- (27) Primeness, semi-primeness and prime radical of Ore extensions, with T.Y. Lam and J. Matczuk Communications in Algebra, 25 (8), 1997, pp. 2459-2506
- (28) On uniform dimensions of ideals in right non-singular rings, with S.K. Jain and T.Y. Lam Journal of Pure and Applied Algebra, décembre 1998
- (29) Principal One-sided Ideals in Ore Polynomial Rings, with T.Y. Lam, Contemporary Math., 259, 2000, pp. 333-352
- (30) Artinian property of constants of algebraic q-skew derivations, with P. Grzeszczuk and J. Matczuk Israel journal of mathematics 121 (2001), 265-284
- (31) Wedderburn polynomials over division rings, I with T.Y. LAM Journal of Pure and Applied Algebra, 186 (2004) 43-76. 26
- (32) F-indépendence and factorizations in 2-firs, with Adem Ozturk Communications in Algebra, Vol. 32 (5) (2004), 1763-1792.
- (33) On induced Modules over Ore extensions, with J. Matczuk Communications in Algebra, 32 (2004), 2743-2766
- (34) Goldie conditions for Ore extensions over semiprime rings, with J. Matczuk, Algebras and Representation Theory, 8, (2005), 679-688.
- (35) Ore Extensions Satisfying a Polynomial Identity, en collaboration avec J. Matczuk Journal of Algebra and Its Applications, 5, (3) (2006), 287-306.
- (36) Noncommutative symmetric functions and Wedderburn polynomials, en collaboration avec Jonathan Delenclos Journal of Algebra and its Applications, 6 (5) (2007), 815-837
- (37) Wedderburn polynomials over division rings, II collaboration avec T.Y. Lam and A. Ozturk Proceedings of a conference held in Chennai at the Ramanujan Institute (Indes) Contemporary mathematics (456) 2008, pp. 73-98
- (38) Quasi duo skew polynomial rings, en collaboration avec J. Matczuk et E. Puczyłowski. Journal of Pure and Applied Algebra; Volume 212, Issue 8, August 2008, Pages 1951-1959
- (39) Ore extensions and V-domains, with S.K. Jain et T.Y. Lam Proceedings of a conference in honour of C. Faith, B. Osofsky, Contemporary Mathematics 480, 2009, pp 249-262
- (40) A description of Quasi duos  $\mathbb{Z}$  graded rings, en collaboration avec J. Matczuk et E. Puczyłowski Communications in Algebra, Volume 38, Issue 4, 2010, Pages 1319 – 1324.

- (41) Rings over which Cyclics are direct sums of projective and CS or noetherian en collaboration avec S.K. Jain et C. Holston, Glasgow Mathematical Journal Vol 52, 2010, pp 103-110.
- (42) On q-skew Ore extensions satisfying a Polynomial Identity, With J. Matczuk journal of Algebra and its Applications Volume: 10, Issue: 4(2011) pp. 771-781
- (43) ADS modules, with Adel Alahmadi et S.K. Jain, Journal of Algebra (2012) Volume 352, Issue 1, pp 25-222.
- (44) Noncommutative polynomial maps, Journal of Algebra and its Applications. vol. 11 (4), (2012)
- (45) Endomorphisms with large images, with J. Matczuk, in Glasgow mathematical Journal Volume 55, Issue 02, May 2013, pp 381-390 with J. Matczuk.
- (46) Idempotents in extensions of rings, J. Algebra Volume 389, 1 September 2013, Pages 128–136, en collaboration avec P. Kanwar et J. Matczuk.
- (47) Decomposition of Singular Matrices into Idempotents, Linear And Multilinear Algebra, 2013, with Adel Alahmadi and S.K. Jain.
- (48) (Sigma, Delta) codes, Advances in Mathematics communications, Volume 7, Issue 4, 2013 Pages 463-474, En collaboration avec M'Hammed Boulagouaz.
- (49) Strongly McCoy rings, Contemporary Mathematics 609, 233-244 (2014), with J. Matczuk.
- (50) Euclidean pairs and quasi euclidean rings, with A. Alahmadi, S.K. Jain and T.Y. Lam J. of Algebra (2014)
- (51) Zip property of certain ring extensions : Journal of pure and applied algebra, ISSN 0022-4049, Vol. 220, N<sup>o</sup> 1 (January 2016), 2016, págs. 335-345 with J. Matczuk.
- (52) Clean elements in polynomial rings, with J. Matczuk and P. Kanwar Contemporary math. vol. 634 (2015)
- (53) Chains of prime ideals and primitivity of  $\mathbb{Z}$ -graded algebras, with B. Greenfeld A. Smoktunowicz and M. Ziemkowski.
- (54) Leapfrog Constructions: From Continuant Polynomials to Permanents of Matrices, The Electronic Journal of Combinatorics Volume 22, Issue 1 (2015) with Alberto Facchini, 2015.
- (55) Decomposition into products of idempotents en collaboration avec S.K. Jain, A. Alahmadi et A. Satahaye, Electronic Journal of linear algebra, Vol. 29, 2015.
- (56) Exponents of skew polynomial rings, en collaboration avec Ahmed Cherchem, Finite Fields and their Applications, Vol.37, 2016.
- (57) Long module skew codes are good, en collaboration avec Alahmadi et Sole, Discrete Mathematics, Vol. 339, 2016.
- (58) Self dual codes over noncommutative Frobenius rings, en collaboration avec S. Dougherty, Applicable Algebra in Engineering, Communication and Computing, 2016.
- (59) Elementary matrices and products of idempotents, with Alberto Facchini, Linear and multilinear algebra, 2016.
- (60) On the duality and the direction of polycyclic codes, with A. Alahmadi and P. Solé Advances in Mathematics of Communications, Vol. 10, 2016.
- (61) Quasi-permutation singular matrices are products of idempotents, With A. Alahmadi and S.K. Jain, Linear Algebra and its Application Vol 496, 2016.

- (62) When are nonnegative matrices products of nonnegative idempotents? with A. Alhmadi and S.K. Jain, Linear and Multilinear Algebra, May 2017.
- (63) Rings whose proper images are almost self-injective. in Rings, modules and codes, 1–5, Contemp. Math., 727, Amer. Math. Soc., Providence, RI, (2019) with A. Alahmadi, S.K. Jain.
- (64) S. Dougherty, A. Kor, A. Leroy Generating characters of noncommutative Frobenius noncommutative rings. Rings, modules and codes, 83–92, Contemp. Math., 727, Amer. Math. Soc., Providence, RI, (2019)
- (65) On UJ-rings, with J. Matczuk, K.Tamer, Communications in Algebra Comm. Algebra 46 (2018).
- (66) On the Jacobson radicals, with J. Matczuk, Remarks on the Jacobson radical. Rings, modules and codes, 269–276, Contemp. Math., 727, Amer. Math. Soc., Providence, RI, (2019)
- (67) Commutatively closed sets in rings, with Dilshad Alghazzawi Comm. Algebra 47 (2019), no. 4, 1629–1641.
- (68) Regular elements determined by generalized inverses, with A. Alahamadi and S.K. Jain, J. Algebra Appl. 18 (2019), no. 7.
- (69) Decomposition of singular elements of an algebra into product of idempotents, a survey, Contributions in algebra and algebraic geometry, 57–74, Contemp. Math., 738, Amer. Math. Soc., Providence, RI, (2019)
- (70) Invariance and Parallel sums, IN Bulletin of Mathematical sciences, 2020 (DOI: 10.1142/S1664360720500010) With A. Alahmadi and S.K. Jain.
- (71) Exponents of skew polynomials over periodic rings, in communication in Alebra, 2021 (with A. cherchem and A. Bouzidi)
- (72) Graphs of Commutatively closed sets, (with M. Abdi), Linear and multilinear algebra, Published online: 20 Sep 2021.
- (73) Evaluations in iterated Ore extensions and Reed-Muller codes, Contemp. Math. (AMS), in 2023.
- (74) On matrix wreath products Algebras, with S.K. Jain, J. of Algebra (2023).
- (75) "Symmetric closure in modules and rings", André Leroy and Mehrdad Nasernejad, Communications in algebra, Published online: August 2023.
- (76) Iterated Ore polynomial maps, André Leroy and Mehrdad Nasernejad Journal of Algebra and Its Applications (online 26 Oct 2023).
- (77) Evaluations in iterated Ore extensions and Reed-Muller codes, with A. Bennenni, Contemp. Math. (AMS), 2023.
- (78) Matrices representable as product of conjugates of a singular matrix with S.K. Jain, contemporary. Math. (AMS), 2023.
- (79) "Rings in which elements are a sum of a central and an element in the Jacobson radical, G. Ma, Y. Wang, A. Leroy, Czekoslovak Math. Journal., 2024.
- (80) Potent and periodic elements, To appear in Journal of Algebra and its applications, 2024 (with Guanglin Ma and M. Nasernejad).
- (81) Structure and arithmetic of multivariate Ore extensions, Communications in Algebra , to appear (With Huda Merdach).
- (82) Decomposition of matrices into product of idempotents and separativity of regular rings, With S.K. Jain Communications in Optimization Theory, 2025.

- (83) Semiclean and Quasi-clean elements in rings, Czechoslovakian Math. Journal. Volume 75, pages 1431-1441, (2025) (with Guanglin Ma)
- (84) Scalar products and Left LCD codes, with N. Bennenni *Applicable Algebra in Engineering, Communication and Computing* (2025) <https://doi.org/10.1007/s00200-025-00702-9>(With Nabil Bennenni)
- (85) Polynomial evaluations in noncommutative settings, a survey, with Huda Merdach J.A. A. (2025) <https://doi.org/10.1142/S021949882542006X>
- (86) Combinatorial Nullstellensatz, To appear in *Contemp. math. Series (AMS)*.
- (87) Intersection of linear and multi-twisted codes with applications (with Ramy Taki Eldin), *Journal of Algebra and Its Applications*;  
DOI 10.1142/S021949882750160X, and arXiv:2503.24303
- (88) Products of Idempotents in Banach Algebras of Operators, with S.K. Jain and Ajit I. Singh "Linear Algebra, Matrices, and Their Applications", *A.M.S. Contemp. Math.*, Volume 833 (2026).
- (89) Entangled polynomials (with K.S. Lee and S. Lopez-Permouth). *Communications in Algebra* (2026).
- (90) Pseudo-linear maps, an overview, *Galois Journal of Algebra* 2 (2026), no. 1, 26–49. DOI: 10.65908/gja.2026.8125.1012.
- (91) Index and Period in Finite Rings, *Bulletin of the Iranian Mathematical Society*, 52(2) (2026), Article 15. DOI: 10.1007/s41980-025-01034-7.(with Guanglin Ma and Chungen Xu);
- (92) Two-sided annihilating ideals, *Communications in Algebra*, 2026. DOI: 10.1080/00927872.2026.2698063. (with Huda Merdach and Masood Aryapoor).
- (93) Combinatorial Nullstellensatz, to appear in *Contemp. Math. Series (AMS)*
- (94) Decomposition of singular elements in Algebras as products of idempotents (with Ajit Iqbal Singh and S.K. Jain), submitted
- (95) Actions and of products of maps (with H. Merdach), submitted.

#### In preparation

- (1) Monograph about decomposing singular matrices as product of idempotent elements. (with S.K. Jain and James East)
- (2) Euclidean rings and beyond, with G. Ma
- (3) Multivariate Ore extensions over a finite field (with Nabil Bennenni)
- (4) Actions and products of rings, II (with André Duarte and Huda Merddach)
- (5) Hopf Ore extensions with Walter Ferrer.