Curriculum Michel Van den Bergh

Personal data

- Birthdate : 25-7-60[1]
- Spouse : Gerda Bust
- Children : Bertold (9-8-90) and Sarah (3-3-99).

Employment

- 1-9-82 to 31-7-87, Researcher at the FWO[2].
- 1-9-85 to 31-12-85, Instructor at the Massachusetts. Institute of Technology (MIT), Cambridge, Massachusetts.
- 15-8-87 to 1-7-88, C.L.E. Moore Instructor at the MIT.
- 1-10-88 to 31-12-88, Assistant UIA[3].
- 1-1-89 to 31-12-90, Senior researcher at the FWO.
- 1-1-91 to 30-9-91, Assistant UIA.
- 1-10-91 to 30-9-92, Visiting position at the Institut des Hautes Etudes Scientifiques (IHES), Paris.
- 1-10-92 to 1-10-95, Professor at the Institut Louis Pasteur, Strasbourg (tenured position).
- 1-10-93 to -, Director of research at the FWO ("onderzoeksleider"). Based at the University of Hasselt.
- 1-10-94 to -, part time appointment at the "Free University of Brussels".
- 15-1-95 to 31-5-95, Visiting Associate Professor at MIT.
- 1-1-98 to 23-7-98, Visiting Professor at MIT.
- 1-2-00 to 30-4-00, Visiting "Key Senior Scientist" at the Mathematical Sciences Research Institute (MSRI) te Berkeley (USA).
- 22-12-03 to 18-6-04, Visiting position at tbe Mittag Leffler Institute in Stockholm.
- 15-01-2013 to 24-05-2013, MSRI, Organizer special program on "Non commutative algebraic geometry and representation theory".

Scientific carreer

- 10-7-79 to 7-7-82, Under graduate degree at the UIA (greatest distinction)
- 22-3-85, PhD in Mathematics, UIA
- 17-5-90, "Hoger Aggregaat[4]", UIA

Scientific distinctions

- 20-12-87, Laureat of the Belgian Academy of Sciences
- 1994, Invited speaker at the International Congres of Mathematicians (section talk).
- 7-6-97, Five-yearly "Alumni Prize" in mathematics.
- 23-6-2003, "Francqui Prize" (interdisciplinary prize by the Belgian Francqui Foundation).

[1] All dates are in the day-month-year format

[2] The FWO is the Belgian equivalent of for example the CNRS in France or the NSF in the USA

[3] UIA is the main university in Antwerp

[4] equivalent of "Habilitation"

– 4-2020 ERC Advanced grant SCHEMES.
– 2021, "Francqui chair" at the Université Libre de Bruxelles.
– 2022, Plenary speaker at the International Congres of Mathematicians.

Organization of conferences

I was/am co-organizor of the following conferences.

– 14-2-2000 to 25-2-2000, MSRI, Interactions between algebraic geometry and non-commutative algebra.
– 14-4-2002 to 20-04-2002, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
– 12-1-2004 to 16-1-2004, Mittag-Leffler Institute, Non-commutative algebraic geometry.
– 9-8-04 to 27-08-04, International Centre for Theoretical Physics, Advanced summer school and workshop on non-commutative algebraic geometry.
– 22-10-2004 to 24-10-2004, Brussels, Francqui colloquium "Homological geometry".
– 7-5-2006 to 13-5-2006, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
– 18-9-2006 to 22-9-2006, Shanghai, Workshop on non-commutative algebraic geometry.
– 9-5-2010 to 15-5-2010, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
– 12-09-2011 to 16-09-2011, Shanghai, Noncommutative Algebraic Geometry.
– Spring 2013 (semester long program), MSRI, Noncommutative algebraic geometry and representation theory.
– 18-5-2014 to 24-5-2014, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
– 19-9-2016 to 24-9-2016 Antwerp, Non-commutative, derived and homotopical methods in geometry.
– 5-12-2016 to 9-12-2016 Oxford, Clay Workshop: Generalized Geometry and Noncommutative Algebra.
– 27-05-2018 to 2-06-2018, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
– 1-05-2022 to 7-05-2022, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
– Spring 2024 (semeter long program), MSRI, Noncommutative Algebraic Geometry.

I was/am in the Scientific Advisory Panel for

– 18-12-2006 to 22-12-2006, Newton Institute Cambridge, Trends in Noncommutative Geometry.

Scientific responsabilities

– Formerly: Editor "Advances in Mathematics"
– Formerly: Editor "Journal of Noncommutative Geometry"
– Formerly: Editor "Journal of Algebra and Number Theory"
– Formerly: Editor "Algebras and Representation Theory"
– Formerly: Editor "Applied Categorical Structures"

– Formerly: Editor "Journal of Algebra."
– Formerly: Editor "Bulletin of the Belgian Mathematical Society".

Longer stays abroad

– 15-06-06 to 15-07-06, Invited professor at Paris 7.
– 1-10-2010 to 31-10-2010, Bonn, 1 month scientific visit to the Max Planck Institute.
– 9-11-2010 to 28-12-2010, Paris, 1 1/2 months scientific visit to the IHES.
– 11-07-2011 to 2-08-2011, Kyoto, 3 weeks visit to RIMS.
– 24-06-2012 to 7-07-2012, OberWolfach, Research in Pairs.
– 31-08-2104 to 20-09-2014, Trieste, 3 weeks scientific visit to SISSA, cooperation with Alice Rizzardo.
– 1-1-2016 to 31-1-2016, Bonn, 1 month scientific visit to the Max Planck Institute.
– 1-10-2018 to 12-10-2018, Trento, Research in Pairs.
– 1-10-2019 to 31-1-2020, Bonn, 4 months scientific visit to the Max Planck Institute.

Phd-students

(1) Bert Sevenhant (1-10-01): Wild quivers: on a conjecture of Kac and the Ringel-Hall algebra.
(2) Martine Van Gastel (4-1-02): The local and global structure of non-commutative projective planes.
(3) Wendy Lowen (18-3-05): Deformation theory and Hochschild cohomology of abelian categories.
(4) Koen de Naeghel (27-2-06): Ideals of three dimensional Artin-Schelter regular algebras.
(5) Adam-Christiaan Van Roosmalen (15-5-2008): On the classification of hereditary categories.
(6) Louis de Thanhoffer de Volcey (29-05-2015): Non-commutative projective geometry and Calabi-Yau algebras.
(7) Theo Raedschelders (12-05-2017): Manin's universal Hopf algebras and highest weight categories.
(8) Dennis Presotto (14-06-2017): Noncommutative del Pezzo surfaces and related topics.
(9) Pieter Belmans (joint with Wendy Lowen, 9-06-2017): Connections between commutative and noncommutative algebraic geometry.
(10) Timothy De Deyn (20-10-2023): Categorical resolutions of filtered schemes.
(11) Anya Nordskova (planned: 25-09-2025): Full exceptional collections on Fano varieties and mutations.
(12) Julie Symons (joint with Wendy Lowen).

Recent research grants

– 1-1-2016 to 31-12-2019, FWO-grant G0D8616N "Hochschild cohomology and deformation theory of triangulated categories" €132000 (joint with Wendy Lowen).
– 1-1-2021 to 31-12-2025, ERC Advanced grant: "Schobers stability and mutations (SCHEMES)" €1015047.50 (already mentioned above).

Monographs.

(1) L. Le Bruyn, M. Van den Bergh, and F. Van Oystaeyen, *Graded orders*, Birkhäuser Boston Inc., Boston, MA, pp. vi+208, 1988.
(2) I. Reiten and M. Van den Bergh, *Two-dimensional tame and maximal orders of finite representation type*, Mem. Amer. Math. Soc. **80** (1989), viii+72.
(3) I. M. Musson and M. Van den Bergh, *Invariants under tori of rings of differential operators and related topics*, Mem. Amer. Math. Soc. **136** (1998), viii+85.
(4) M. Van den Bergh, *Blowing up of non-commutative smooth surfaces*, Mem. Amer. Math. Soc. **154** (2001), x+140.

Articles.

(5) M. Van den Bergh, *A duality theorem for Hopf algebras*, Methods in ring theory (Antwerp, 1983), NATO Adv. Sci. Inst. Ser. C Math. Phys. Sci., vol. 129, Reidel, Dordrecht, pp. 517–522, 1984.
(6) S. Caenepeel, M. Van den Bergh, and F. Van Oystaeyen, *Generalized crossed products applied to maximal orders, Brauer groups and related exact sequences*, J. Pure Appl. Algebra **33** (1984), 123–149.
(7) M. Van den Bergh and J. Van Geel, *A duality theorem for orders in central simple algebras over function fields*, J. Pure Appl. Algebra **31** (1984), 227–239.
(8) M. Van den Bergh and J. Van Geel, *Algebraic elements in division algebras over function fields of curves*, Israel J. Math. **52** (1985), 33–45.
(9) M. Van den Bergh, *On a theorem of Cohen and Montgomery*, Proc. Amer. Math. Soc. **94** (1985), 562–564.
(10) M. Van den Bergh, *Graded Dedekind rings*, J. Pure Appl. Algebra **35** (1985), 105–115.
(11) M. Van den Bergh, *A note on graded K-theory*, Comm. Algebra **14** (1986), 1561–1564.
(12) L. Le Bruyn and M. Van den Bergh, *An explicit description of $T_{3,2}$*, Ring theory (Antwerp, 1985), Lecture Notes in Math., vol. 1197, Springer, Berlin, pp. 109–113, 1986.
(13) L. Le Bruyn, M. Van den Bergh, and F. Van Oystaeyen, *Proj of generic matrices and trace rings*, Comm. Algebra **14** (1986), 1687–1706.
(14) M. Van den Bergh, *The algebraic index of a division algebra*, Ring theory (Antwerp, 1985), Lecture Notes in Math., vol. 1197, Springer, Berlin, pp. 190–206, 1986.
(15) M. Van den Bergh, *Regular rings of dimension three*, Séminaire d'algèbre Paul Dubreil et Marie-Paule Malliavin (Paris, 1986), Lecture Notes in Math., vol. 1296, Springer, Berlin, pp. 228–234, 1987.
(16) M. Van den Bergh, *A note on graded Brauer groups*, Bull. Soc. Math. Belg. Sér. B **39** (1987), 177–179.
(17) M. Van den Bergh, *Linearisations of binary and ternary forms*, J. Algebra **109** (1987), 172–183.
(18) L. Le Bruyn and M. Van den Bergh, *The ramification divisor of regular tame orders. I*, Comm. Algebra **15** (1987), 1815–1840.

(19) M. Van den Bergh, *Division algebras over function fields of varieties*, Academiae Analecta **49** (1987), 127–135.
(20) M. Van den Bergh, *The Brauer-Severi scheme of the trace ring of generic matrices*, Perspectives in ring theory (Antwerp, 1987), NATO Adv. Sci. Inst. Ser. C Math. Phys. Sci., vol. 233, Kluwer Acad. Publ., Dordrecht, pp. 333–338, 1988.
(21) L. Le Bruyn and M. Van den Bergh, *Regularity of trace rings of generic matrices*, J. Algebra **117** (1988), 19–29.
(22) M. Awami, M. Van den Bergh, and F. Van Oystaeyen, *Note on derivations of graded rings and classification of differential polynomial rings*, Bull. Soc. Math. Belg. Sér. A **40** (1988), 175–183.
(23) M. Van den Bergh, *Group rings over Dedekind rings*, Israel J. Math. **61** (1988), 295–300.
(24) M. Van den Bergh, *Algebraic splitting fields of division algebras*, Ring theory 1989 (Ramat Gan and Jerusalem, 1988/1989), Israel Math. Conf. Proc., vol. 1, Weizmann, Jerusalem, pp. 381–388, 1989.
(25) M. Van den Bergh, *The center of the generic division algebra*, J. Algebra **127** (1989), 106–126.
(26) C. Năstăsescu, M. Van den Bergh, and F. Van Oystaeyen, *Separable functors applied to graded rings*, J. Algebra **123** (1989), 397–413.
(27) M. Van den Bergh, *Trace rings of generic matrices are Cohen-Macaulay*, J. Amer. Math. Soc. **2** (1989), 775–799.
(28) M. J. Asensio, M. Van den Bergh, and F. Van Oystaeyen, *A new algebraic approach to microlocalization of filtered rings*, Trans. Amer. Math. Soc. **316** (1989), 537–553.
(29) M. Van den Bergh and F. Van Oystaeyen, *Lifting maximal orders*, Comm. Algebra **17** (1989), 341–349.
(30) M. Artin, J. Tate, and M. Van den Bergh, *Some algebras associated to automorphisms of elliptic curves*, The Grothendieck Festschrift, Vol. I, Progr. Math., vol. 86, Birkhäuser Boston, Boston, MA, pp. 33–85, 1990.
(31) M. Artin and M. Van den Bergh, *Twisted homogeneous coordinate rings*, J. Algebra **133** (1990), 249–271.
(32) H. S. Li, M. Van den Bergh, and F. Van Oystaeyen, *Note on the K_0 of rings with Zariskian filtration*, K-Theory **3** (1990), 603–606.
(33) H. S. Li, M. Van den Bergh, and F. Van Oystaeyen, *Global dimension and regularity of Rees rings for non-Zariskian filtrations*, Comm. Algebra **18** (1990), 3195–3208.
(34) M. Van den Bergh, *Differential operators on semi-invariants for tori and weighted projective spaces*, Topics in invariant theory (Paris, 1989/1990), Lecture Notes in Math., vol. 1478, Springer, Berlin, pp. 255–272, 1991.
(35) M. Artin, J. Tate, and M. Van den Bergh, *Modules over regular algebras of dimension* 3, Invent. Math. **106** (1991), 335–388.
(36) M. Van den Bergh, *Cohen-Macaulayness of modules of covariants*, Invent. Math. **106** (1991), 389–409.
(37) L. Le Bruyn and M. Van den Bergh, *Algebraic properties of linear cellular automata*, Linear Algebra Appl. **157** (1991), 217–234.
(38) M. Van den Bergh, *Cohen-Macaulayness of modules of invariants for* SL_2, J. Algebra **142** (1991), 273–284.

(39) M. Van den Bergh, *Explicit rational forms for the Poincaré series of the trace rings of generic matrices*, Israel J. Math. **73** (1991), 17–31.
(40) C. Apostolopoulos, M. Van den Bergh, and F. Van Oystaeyen, *On Schur rings of group rings of finite groups*, Comm. Algebra **20** (1992), 2139–2152.
(41) A. Schofield and M. Van den Bergh, *The index of a Brauer class on a Brauer-Severi variety*, Trans. Amer. Math. Soc. **333** (1992), 729–739.
(42) A. Jensen, S. Jøndrup, and M. Van den Bergh, *Artinian quotient rings of filtered rings*, J. Algebra **161** (1993), 230–236.
(43) L. Le Bruyn and M. Van den Bergh, *On quantum spaces of Lie algebras*, Proc. Amer. Math. Soc. **119** (1993), 407–414.
(44) M. Van den Bergh, *Cohen-Macaulayness of semi-invariants for tori*, Trans. Amer. Math. Soc. **336** (1993), 557–580.
(45) M. Van den Bergh, *Noncommutative homology of some three-dimensional quantum spaces*, Proceedings of Conference on Algebraic Geometry and Ring Theory in honor of Michael Artin, Part III (Antwerp, 1992), vol. 8, pp. 213–230, 1994.
(46) M. Van den Bergh, *A converse to Stanley's conjecture for* SL_2, Proc. Amer. Math. Soc. **121** (1994), 47–51.
(47) A. Schofield and M. Van den Bergh, *Division algebra coproducts of index n*, Trans. Amer. Math. Soc. **341** (1994), 505–517.
(48) M. Van den Bergh, *Modules of covariants*, Proceedings of the International Congress of Mathematicians, Vol. 1, 2 (Zürich, 1994), Birkhäuser, Basel, pp. 352–362, 1995.
(49) J. Tate and M. Van den Bergh, *Homological properties of Sklyanin algebras*, Invent. Math. **124** (1996), 619–647.
(50) L. Le Bruyn, S. P. Smith, and M. Van den Bergh, *Central extensions of three-dimensional Artin-Schelter regular algebras*, Math. Z. **222** (1996), 171–212.
(51) M. Van den Bergh, *A translation principle for the four-dimensional Sklyanin algebras*, J. Algebra **184** (1996), 435–490.
(52) M. Van den Bergh, *Some rings of differential operators for* SL_2*-invariants are simple*, J. Pure Appl. Algebra **107** (1996), 309–335.
(53) J. Alev, A. Ooms, and M. Van den Bergh, *A class of counterexamples to the Gelfand-Kirillov conjecture*, Trans. Amer. Math. Soc. **348** (1996), 1709–1716.
(54) M. Van den Bergh, *Division algebras on* $\mathbb{P}^2$ *of odd index, ramified along a smooth elliptic curve are cyclic*, Algèbre non commutative, groupes quantiques et invariants (Reims, 1995), Sémin. Congr., vol. 2, Soc. Math. France, Paris, pp. 43–53, 1997.
(55) M. Van den Bergh and M. Van Gastel, *Graded modules of Gelfand-Kirillov dimension one over three-dimensional Artin-Schelter regular algebras*, J. Algebra **196** (1997), 251–282.
(56) M. Van den Bergh, *Existence theorems for dualizing complexes over non-commutative graded and filtered rings*, J. Algebra **195** (1997), 662–679.
(57) K. E. Smith and M. Van den Bergh, *Simplicity of rings of differential operators in prime characteristic*, Proc. London Math. Soc. (3) **75** (1997), 32–62.

(58) M. Van den Bergh, *A relation between Hochschild homology and cohomology for Gorenstein rings*, Proc. Amer. Math. Soc. **126** (1998), 1345–1348.
(59) T. Gateva-Ivanova and M. Van den Bergh, *Semigroups of I-type*, J. Algebra **206** (1998), 97–112.
(60) K. Bauwens and M. Van den Bergh, *Normalizing extensions of the two-Veronese of a three-dimensional Artin-Schelter regular algebra on two generators*, J. Algebra **205** (1998), 368–390.
(61) B. Sevenhant and M. Van den Bergh, *On the number of absolutely indecomposable representations of a quiver*, J. Algebra **221** (1999), 29–49.
(62) B. Sevenhant and M. Van den Bergh, *On the double of the Hall algebra of a quiver*, J. Algebra **221** (1999), 135–160.
(63) M. Van den Bergh, *Local cohomology of modules of covariants*, Adv. Math. **144** (1999), 161–220.
(64) K. Ajitabh and M. Van den Bergh, *Presentation of critical modules of GK-dimension* 2 *over elliptic algebras*, Proc. Amer. Math. Soc. **127** (1999), 1633–1639.
(65) J. Alev, A. I. Ooms, and M. Van den Bergh, *The Gelfand-Kirillov conjecture for Lie algebras of dimension at most eight*, J. Algebra **227** (2000), 549–581.
(66) M. Van den Bergh, *Abstract blowing down*, Proc. Amer. Math. Soc. **128** (2000), 375–381.
(67) A. Schofield and M. Van den Bergh, *Semi-invariants of quivers for arbitrary dimension vectors*, Indag. Math. (N.S.) **12** (2001), 125–138.
(68) B. Sevenhant and M. Van den Bergh, *A relation between a conjecture of Kac and the structure of the Hall algebra*, J. Pure Appl. Algebra **160** (2001), 319–332.
(69) I. Reiten and M. Van den Bergh, *Grothendieck groups and tilting objects*, Algebr. Represent. Theory **4** (2001), 1–23.
(70) J. T. Stafford and M. Van den Bergh, *Noncommutative curves and noncommutative surfaces*, Bull. Amer. Math. Soc. (N.S.) **38** (2001), 171–216.
(71) I. Reiten and M. Van den Bergh, *Noetherian hereditary abelian categories satisfying Serre duality*, J. Amer. Math. Soc. **15** (2002), 295–366.
(72) M. Van den Bergh, *Erratum to: "A relation between Hochschild homology and cohomology for Gorenstein rings" [Proc. Amer. Math. Soc.* **126 (1998), no. 5, 1345–1348; MR 99m:16013**], Proc. Amer. Math. Soc. **130** (2002), 2809–2810.
(73) M. Van den Bergh and M. Van Gastel, *On the structure of non-commutative regular local rings of dimension two*, Comm. Algebra **30** (2002), 4575–4588.
(74) M. Van den Bergh, *Non-commutative crepant resolutions*, The Legacy of Niels Hendrik Abel, Springer, pp. 749–770, 2002.
(75) A. Bondal and M. Van den Bergh, *Generators and representability of functors in commutative and noncommutative geometry*, Moscow Mathematical Journal **3** (2003), 1–36.
(76) W. Crawley-Boevey and M. Van den Bergh, *Absolutely indecomposable representations and Kac-Moody Lie algebras*, Invent. Math. **155** (2004), 537–559.
(77) M. Van den Bergh, *Three-dimensional flops and noncommutative rings*, Duke Math. J. **122** (2004), 423–455.

(78) K. de Naeghel and M. van den Bergh, *Ideal classes of three-dimensional Sklyanin algebras*, J. Algebra **276** (2004), 515–551.
(79) M. Van den Bergh, *A remark on a theorem by Deligne*, Proc. Amer. Math. Soc. **132** (2004), 2857–2858.
(80) K. De Naeghel and M. Van den Bergh, *Ideal classes of three dimensional Artin-Schelter regular algebras*, J. Algebra **283** (2005), 399–429.
(81) M. Van den Bergh, *On the $\mathbb{Z}D_\infty$ category*, Proceedings of the 37th Symposium on Ring Theory and Representation Theory, Symp. Ring Theory Represent Theory Organ. Comm., Osaka, pp. 103–112, 2005.
(82) W. Lowen and M. Van den Bergh, *Hochschild cohomology of abelian categories and ringed spaces*, Adv. Math. **198** (2005), 172–221.
(83) W. Lowen and M. Van den Bergh, *Deformation theory of abelian categories*, Trans. Amer. Math. Soc. **358** (2006), 5441–5483.
(84) L. Hille and M. Van den Bergh, *Fourier-Mukai transforms*, Handbook of tiltingtheory, London Mathematical Society Lecture Note Series, vol. 332, Cambridge University Press, pp. 147–173, 2007.
(85) K. De Naeghel and M. Van den Bergh, *On incidence between strata of the Hilbert scheme of points on $\mathbb{P}^2$*, Math. Z. **255** (2007), 897–922.
(86) M. Van den Bergh, *On global deformation quantization in the algebraic case*, Journal of Algebra **315** (2007), 326–395.
(87) M. Van den Bergh, *Double Poisson algebras*, Trans. Amer. Math. Soc. **360** (2008), 5711–5769.
(88) J. T. Stafford and M. Van den Bergh, *Noncommutative resolutions and rational singularities*, Michigan Math. J. **57** (2008), 659–674.
(89) M. Van den Bergh, *Non-commutative quasi-Hamiltonian spaces*, Poisson geometry in mathematics and physics, Contemp. Math., vol. 450, Amer. Math. Soc., Providence, RI, pp. 273–299, 2008.
(90) M. Van den Bergh, *The Kontsevich weight of a wheel with spokes pointing outward*, Algebr. Represent. Theory **12** (2009), 443–479.
(91) D. Calaque and M. Van den Bergh, *Global formality at the G_∞-level*, Mosc. Math. J. **10** (2010), 31–64, 271.
(92) D. Calaque and M. Van den Bergh, *Hochschild cohomology and Atiyah classes*, Adv. Math. **224** (2010), 1839–1889.
(93) R. Buchweitz, G. J. Leuschke, and M. Van den Bergh, *Non-commutative desingularization of determinantal varieties I*, Invent. Math. **182** (2010), 47–115.
(94) D. Calaque, C. A. Rossi, and M. van den Bergh, *Hochschild (co)homology for Lie algebroids*, Int. Math. Res. Not. IMRN (2010), 4098–4136.
(95) A. I. Ooms and M. Van den Bergh, *A degree inequality for Lie algebras with a regular Poisson semi-center*, J. Algebra **323** (2010), 305–322.
(96) W. Lowen and M. van den Bergh, *A Hochschild cohomology comparison theorem for prestacks*, Trans. Amer. Math. Soc. **363** (2011), 969–986.
(97) M. Van den Bergh, *Noncommutative quadrics*, Int. Math. Res. Not. IMRN (2011), 3983–4026.
(98) B. Keller, D. Murfet, and M. Van den Bergh, *On two examples by Iyama and Yoshino*, Compos. Math. **147** (2011), 591–612.
(99) M. Van den Bergh, *Non-commutative $\mathbb{P}^1$-bundles over commutative schemes*, Trans. Amer. Math. Soc. **364** (2012), 6279–6313.

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(103) L. de Thanhoffer de Völcsey and M. Van den Bergh, *Some new examples of nondegenerate quiver potentials*, Int. Math. Res. Not. IMRN (2013), 4672–4686.
(104) W. Lowen and M. Van den Bergh, *On compact generation of deformed schemes*, Advances in Mathematics **244** (2013), 441–464.
(105) B. Kriegk and M. Van den Bergh, *Representations of non-commutative quantum groups*, Proc. Lond. Math. Soc. (3) **110** (2015), 57–82.
(106) M. Van den Bergh, *Calabi-Yau algebras and superpotentials*, Selecta Math. (N.S.) **21** (2015), 555–603.
(107) R. Buchweitz, G. J. Leuschke, and M. Van den Bergh, *On the derived category of Grassmannians in arbitrary characteristic*, Compos. Math. **151** (2015), 1242–1264.
(108) M. Van den Bergh, *On Involutivity of p-Support*, Int. Math. Res. Not. IMRN (2015), 6295–6304.
(109) G. Tabuada and M. Van den Bergh, *Noncommutative motives of Azumaya algebras*, J. Inst. Math. Jussieu **14** (2015), 379–403.
(110) A. Rizzardo and M. Van den Bergh, *Scalar extensions of derived categories and non-Fourier-Mukai functors*, Adv. Math. **281** (2015), 1100–1144.
(111) L. de Thanhoffer de Völcsey and M. Van den Bergh, *Explicit models for some stable categories of maximal Cohen-Macaulay modules*, Math. Res. Lett. **23** (2016), 1507–1526.
(112) R. Buchweitz, G. J. Leuschke, and M. Van den Bergh, *Non-commutative desingularization of determinantal varieties, II: arbitrary minors*, Int. Math. Res. Not. IMRN (2016), 2748–2812.
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(114) D. Presotto and M. Van den Bergh, *Noncommutative versions of some classical birational transformations*, J. Noncommut. Geom. **10** (2016), 221–244.
(115) Š. Špenko and M. Van den Bergh, *Non-commutative resolutions of quotient singularities for reductive groups*, Invent. Math. **210** (2017), 3–67.
(116) Š. Špenko and M. Van den Bergh, *Comparing the commutative and non-commutative resolutions for determinantal varieties of skew symmetric and symmetric matrices*, Adv. Math. **317** (2017), 350–370.
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(118) T. Raedschelders and M. Van den Bergh, *The representation theory of non-commutative $\mathcal{O}\,\mathrm{GL}_2$)*, J. Noncommut. Geom. **11** (2017), 845–885.

(119) L. de Thanhoffer de Völcsey and M. Van den Bergh, *Calabi-Yau deformations and negative cyclic homology*, J. Noncommut. Geom. **12** (2018), 1255–1291.
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