

CURRICULUM MICHEL VAN DEN BERGH

PERSONAL DATA

- Birthdate : 25-7-60¹
- Spouse : Gerda Bust
- Children : Bertold (9-8-90) and Sarah (3-3-99).

EMPLOYMENT

- 1-9-82 to 31-7-87, Researcher at the FWO².
- 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 UIA³.
- 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”).
- 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 the 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 Aggregaat⁴”, UIA

SCIENTIFIC DISTINCTIONS

- 20-12-87, Laureat of the Belgian Academy of Sciences
- 7-6-97, Five-yearly “Alumni Prize” in mathematics.
- 23-6-2003, “Francqui Prize” (interdisciplinary prize by the Belgian Francqui Foundation).

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

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

³UIA is the main university in Antwerp

⁴equivalent of “Habilitation”

ORGANIZATION OF CONFERENCES

I was/am co-organizer 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.
- January 2019, Tokyo, IPMU, Schobers and around.

I was/am in the Scientific Advisory Panel for

- 18-12-2006 to 22-12-2006, Newton Institute Cambridge, Trends in Noncommutative Geometry.
- 25-06-2020 to 4-07-2020, ICRA XIX.

SCIENTIFIC RESPONSABILITIES

- Editor “Advances in Mathematics”
- Editor “Journal of Algebra.”
- Editor “Applied Categorical Structures”
- Editor “Algebras and Representation Theory”
- Editor “Journal of Noncommutative Geometry”
- Editor “Journal of Algebra and Number Theory”
- Editor “Higher structures”
- 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.
- 31-08-2014 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.

PHD-STUDENTS

- Bert Sevenhant (1-10-01): Wild quivers: on a conjecture of Kac and the Ringel-Hall algebra.
- Martine Van Gastel (4-1-02): The local and global structure of non-commutative projective planes.
- Wendy Lowen (18-3-05): Deformation theory and Hochschild cohomology of abelian categories.
- Koen de Naeghel (27-2-06): Ideals of three dimensional Artin-Schelter regular algebras.
- Adam-Christiaan Van Roosmalen (15-5-2008): On the classification of hereditary categories.
- Louis de Thanhoffer de Volcey (29-05-2015): Non-commutative projective geometry and Calabi-Yau algebras.
- Theo Raedschelders (12-05-2017): Manins universal Hopf algebras and highest weight categories.
- Dennis Presotto (14-06-2017): Noncommutative del Pezzo surfaces and related topics.
- Pieter Belmans (joint with Wendy Lowen, 9-06-2017): Connections between commutative and noncommutative algebraic geometry.

PUBLICATIONS

Monographs.

- (1) L. Le Bruyn, M. Van den Bergh, and F. Van Oystaeyen, *Graded orders*, Birkhauser 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 \mathbf{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 non-commutative 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 tilting theory, 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.
- (100) D. Calaque, C. A. Rossi, and M. Van den Bergh, *Căldăraru’s conjecture and Tsygan’s formality*, Ann. of Math. (2) **176** (2012), 865–923.
- (101) M. Van den Bergh, *Notes on formal deformations of abelian categories*, Derived categories in algebraic geometry, EMS Ser. Congr. Rep., Eur. Math. Soc., Zürich, pp. 319–344, 2012.
- (102) S. P. Smith and M. Van den Bergh, *Non-commutative quadric surfaces*, Journal of Noncommutative Geometry **7** (2013), 817–856.
- (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. d. T. de Völçsey 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.
- (113) G. Tabuada and M. Van den Bergh, *Noncommutative motives of separable algebras*, Adv. Math. **303** (2016), 1122–1161.
- (114) D. Presotto and M. Van den Bergh, *Noncommutative versions of some classical birational transformations*, J. Noncommut. Geom. **10** (2016), 221–244.
- (115) S. Spenko and M. Van den Bergh, *Non-commutative resolutions of quotient singularities for reductive groups*, Invent. Math. **210** (2017), 3–67.
- (116) S. Spenko 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.
- (117) T. Raedschelders and M. Van den Bergh, *The Manin Hopf algebra of a Koszul Artin–Schelter regular algebra is quasi-hereditary*, Adv. Math. **305** (2017), 601–660.
- (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) G. Tabuada and M. Van den Bergh, *The Gysin triangle via localization and A^1 -homotopy invariance*, Trans. Amer. Math. Soc. **370** (2018), 421–446.

Accepted for publication.

- (120) L. de Thanhoffer de Völçsey and M. Van den Bergh, *Calabi-Yau deformations and negative cyclic homology*, to appear in Journal of Noncommutative Geometry.
- (121) A. Polishchuk and M. Van den Bergh, *Semiorthogonal decompositions of the categories of equivariant coherent sheaves for some reflection groups*, to appear in Journal of the European Mathematical Society.
- (122) G. Tabuada and M. Van den Bergh, *Additive invariants of orbifolds*, to appear in Geometry and Topology.
- (123) A. Rizzardo and M. Van den Bergh, *A note on non-unique enhancements*, to appear in Proceeding of the AMS.
- (124) S. Spenko and M. Van den Bergh, *Non-commutative crepant resolutions for some toric singularities II*, to appear in J. Noncommut. Geom..
- (125) J. V. Rennemo, E. Segal, and M. Van den Bergh, *A non-commutative Bertini theorem*, to appear in J. Noncommut. Geom..

Submitted.

- (126) J. P. Bell, S. Spenko, and M. Van den Bergh, *On the noncommutative Bondal-Orlov conjecture for some toric varieties*, submitted.
- (127) S. Spenko and M. Van den Bergh, *Tilting bundles on hypertoric varieties*, submitted.
- (128) A. Rizzardo and M. Van den Bergh, *An example of a non-Fourier-Mukai functor between derived categories of coherent sheaves*, submitted.
- (129) W. Lowen and M. Van den Bergh, *The curvature problem for formal and infinitesimal deformations*, submitted.
- (130) S. Spenko and M. Van den Bergh, *Semi-orthogonal decomposition of GIT quotient stacks*, submitted.
- (131) S. Spenko and M. Van den Bergh, *Non-commutative crepant resolutions for some toric singularities I*, submitted.
- (132) D. Chan, K. Chan, L. de Thanhoffer de Völcsey, C. Ingalls, K. Jabbusch, S. J. Kovács, R. Kulkarni, B. Lerner, B. Nanayakkara, S. Okawa, and M. Van den Bergh, *The minimal model program for b -log canonical divisors and applications*, submitted.
- (133) T. Raedschelders, S. Spenko, and M. Van den Bergh, *The Frobenius morphism in invariant theory*, submitted.
- (134) A. Rizzardo and M. Van den Bergh, *A k -linear triangulated category without a model*, submitted.
- (135) G. Tabuada and M. Van den Bergh, *Motivic concentration theorem*, submitted.

In preparation.

- (136) D. Calaque and M. Van den Bergh, *Compatibility with cupproduct for arbitrary manifolds*, in preparation.

Notes.

- (137) M. Van den Bergh, *Some generalities on G -equivariant quasi-coherent O_X and D_X -modules*, notes.
- (138) M. Van den Bergh, *Notes on de Jong's period=index theorem for central simple algebras over fields of transcendence degree two*, notes.
- (139) L. de Thanhoffer de Völcsey and M. Van den Bergh, *On an analogue of the Markov equation for exceptional collections of length 4*, notes.

INVITED LECTURES

- (1) 29-1-84 to 4-2-84, Oberwolfach, lecture at the conference "Brauer groups of Fields".
- (2) 26-8-84 to 1-8-84, Luminy, lecture at the conference "Ring Theory".
- (3) 23-1-86, Paris, lecture at the Seminar Malliavin.
- (4) 27-6-87, Zurich, lecture at the Seminar P. Gabriel.
- (5) 4-11-87, Yale Univ., Colloquium lecture.
- (6) 12-11-87, Brandeis Univ., lecture at the MIT, Harvard, Brandeis colloquium.
- (7) 29-5-88 to 4-6-88, OberWolfach, lecture at the conference "Orders and their applications".
- (8) 26-12-88 to 1-1-89, Jerusalem, lecture on the conference in honor of S.A. Amitsur sixtieth birthday.
- (9) 8-1-89 to 11-1-89, Beer Sheeba, lecture at a conference on "Hopf algebras".

- (10) 20-3-89, Paris, lecture at the seminar Malliavin.
- (11) 29-5-89, Paris, lecture at the seminar Malliavin.
- (12) 4-6-89 to 10-6-89, Oberwolfach, lecture at the conference “Rings and modules”.
- (13) 10-6-89 to 21-6-89, Berkeley, lecture at the conference “Micro program on non-commutative rings”.
- (14) 9-11-89, Utrecht, colloquium lecture at the State University of Utrecht.
- (15) 19-2-90, Paris, lecture at the seminar Malliavin.
- (16) 10-12-90, Paris, lecture at the seminar Malliavin.
- (17) 8-9-91, Paris, lecture at the enveloping algebra seminar.
- (18) 13-1-92, Paris, lecture at the seminar Alev, Levasseur, Peskine (formerly organized by M.P. Malliavin).
- (19) 30-6-92 Paris, lecture at the conference on Invariant Theory.
- (20) 16-6-92, Orsay, lecture at the seminar on Algebraic geometry.
- (21) 14-1-92, Grenoble, seminar lecture.
- (22) 29-1-92, Strasbourg, seminar lecture.
- (23) 30-1-92, Strasbourg, seminar lecture.
- (24) 12-3-92, Reims, seminar lecture.
- (25) 1-2-93, Paris, lecture at the seminar ALP.
- (26) 15-4-94, Edinburgh, lecture at the Scottish Algebra day.
- (27) 2-9-94 to 11-9-94, Zurich, section talk at the International Congress of Mathematicians (ICM94)
- (28) 25-7-94 to 29-7-94, Almeria, lecturer in a Spanish summerschool on quantumspaces.
- (29) 14-11-94, Paris, lecture at the seminar ALP.
- (30) 18-11-94, Paris, lecture at the enveloping algebra seminar.
- (31) 27-6-95 to 30-6-95, Reims, invited lecture at “Conctact Franco-Belge”.
- (32) 29-7-95 to 4-8-95, OberWolfach, lecture in the conference on “Enveloping Algebras”.
- (33) 20-9-95, Paris, lecture at the seminar ALP.
- (34) 22-5-96 to 25-5-96, Antwerp, plenary lecture on the “Joint meeting of the Americal Mathematical Society and the Benelux Mathematical Societies”.
- (35) 19-6-96 to 21-6-96, Paris, lecture on the “Journées Solstice d’ete”.
- (36) 17-6-96 to 18-6-96, Louvain la Neuve, lecture at the “Euroconference on Linear Algebraic Groups and Related Structures”
- (37) 23-5-97, Lyon, lecture at the Journee d’Algebre.
- (38) 10-10-97, Copenhagen, seminar lecture.
- (39) 16-11-97 to 22-11-97, OberWolfach, lecture at “Enveloping Algebras and Representation Theory”.
- (40) 17-8-97 to 23-8-97, Oberwolfach, lecture at “Noncommutative algebra and representation theory”.
- (41) 1-6-98,2-6-98, Univ. of Washington, algebra seminar lectures.
- (42) 4-6-98, Eugene, Univ. of Oregon, colloquium lecture.
- (43) 5-6-98, Eugene, Univ. of Oregon, algebra seminar lecture.
- (44) 4-9-98, Bielefeld, plenary lecture on ICRTA8.5.
- (45) 3-4-98, MIT, lecture in the seminar on infinite dimensional Lie algebras.
- (46) 11-5-98, Boston, North Eastern Univ., lecture in representation theory seminar.

- (47) Feb. '98-May '98, MIT, weekly series of lectures on “non-commutative blowing up”.
- (48) 16-10-98, Paris, lecture in the seminar on enveloping algebras.
- (49) 19-10-98, Paris, lecture in the seminar Alev, Keller, Levasseur, Peskine.
- (50) 8-4-99, Bonn, lecture in the seminar on “Non-commutative algebraic geometry” at the “Max Planck Institute fur Mathematik”.
- (51) 29-5-99 to 1-6-99, St John's, Canada, plenary lecture at the summer meeting of the Canadian Mathematical Society.
- (52) 24-6-99 to 15-7-99, Bonn, lecture at a workshop on “Non-commutative algebraic geometry” at the MPI.
- (53) 16-12-99, Utrecht, Colloquim lecture.
- (54) 1-2-00 to 31-5-00, 6 lectures in a seminar on non-commutative geometry.
- (55) 15-9-00 to 1-10-00, Bonn, lecture at a workshop on “Non-commutative algebraic geometry” at the MPI.
- (56) 21-5-01, Paris, Lecture in the seminar Alev, Keller, Levasseur, Peskine.
- (57) 23-6-01 to 29-6-01, Beer-Sheva, Plenary speaker on the Amitsur memorial symposium.
- (58) 25-1-02 to 31-1-02, Paris, Lecture in the seminar Alev, Keller, Levasseur, Peskine and a
- (59) Lecture in the seminar on enveloping algebras.
- (60) 28-04-02 to 04-05-02, OberWolfach, Lecture at the conference on “Enveloping Algebras”.
- (61) 03-06-02 to 08-06-02, Oslo, Lecture at the Abel bicentennial conference.
- (62) 02-09-02 to 08-09-02, Almeria, Two lectures at a conference on non-commutative algebraic geometry.
- (63) 18-11-02 to 22-11-02, Fraueninsel, Germany, Two lectures at the symposium “Twenty years of tilting theory”.
- (64) 9-11-02 to 13-11-02, Luminy, Lecture at a conference on “Quiver varieties”.
- (65) 29-12-2002 to 2-02-2003, Michigan, Visit to Toby Stafford (2 lectures).
- (66) 3-02-03 to 7-02-03, Berkeley, Lecture at a conference on “Commutative algebra”.
- (67) Feb' 03, Paris, Lecture in the Seminar Alev, Levasseur, Keller, Peskine.
- (68) 11-03-03 to 15-03-03, Manchester, Lecture at a conference on “Geometric Representation and Invariant Theory”.
- (69) 2-06-03 to 06-06-03, Edinburgh, Tutorial lectures on applications of derived categories to non-commutative algebra.
- (70) 14-07-03 to 18-07-03, Lisboa, Plenary lecture at a conference on “Algebras, Rings and Modules”.
- (71) 27-10-03 to 31-10-03, Luminy, Lectures on “Schémas de Hilbert, algèbre noncommutative et correspondance de McKay”.
- (72) 12-1-04 to 17-1-04, Stockholm, Lecture at workshop.
- (73) 14-6-04 to 21-7-04, Warwick, Lecture at workshop on non-commutative geometry.
- (74) 2-8-04 to 7-8-04, Edinburgh, Lecture at workshop on “Quivers and strings”.
- (75) 9-8-04 to 27-8-04, Trieste, Course on homological algebra at the “International Center for Theoretical Physics”.
- (76) 26-8-04, Trieste, talk at workshop at the “International Center for Theoretical Physics”.

- (77) 3-9-04 to 5-9-04, Matsumoto, 3 lectures on conference on ring theory.
- (78) 4-10-04, Paris, Lecture on a day in honor of Marie-Paule Malliavin.
- (79) 6-2-05 to 12-02-05, Oberwolfach, 2 lectures in the meeting “Representation Theory of Finite-Dimensional Algebras”.
- (80) 17-4-05 to 14-5-05, Michigan, visit to Toby Stafford (no lecture).
- (81) 14-5-05 to 21-5-05, Toronto, visit to Buchweitz (no lecture).
- (82) 30-06-05, Bonn, lecture at the Max Planck Institute for Mathematics.
- (83) 1-07-05, Bonn, lecture at Bonn University.
- (84) 16-09-05 to 21-09-05, Spa, lecture in the ESF meeting “Geometric Representation and Invariant Theory Algebraic Quantization and Deformations”.
- (85) 17-10-05 to 21-10-05, Mainz, 5 lectures on the “Autumn school on deformation theory”.
- (86) 1-04-06 to 6-04-06, Banff, Canada, Lecture at the conference on “Recent trends in higher dimensional geometry”.
- (87) 7-05-06 to 13-05-06, Tokyo, Lecture at the conference “Poisson 2006”.
- (88) 15-06-06 to 15-07-06, Paris, 3 lectures.
- (89) 16-09-06 to 28-09-06, Shanghai, lecture at Tiaotong University.
- (90) 1-10-06 to 31-10-06, Cambridge, no lectures.
- (91) 10-10-06, Oxford, Lecture in the algebraic geometry seminar.
- (92) 10-11-06, Strasbourg, Lecture in a conference on operads.
- (93) 11-11-06, Paderborn, Lecture at a conference in honor of Helmut Lenzing.
- (94) 1-4-2007 to 7-4-2007, Lyon, Lecture.
- (95) 26-8-2007 to 31-8-2007, Konstanz, Germany, 3 lectures on a summerschool devoted to de Jong’s theorem.
- (96) 10-9-2007 to 14-9-2007, Beijing, 3 lectures at the summerschool “Workshop on Categorification, Quantization and Clusters” at the Morning Side Center of Mathematics.
- (97) 18-9-2007 to 22-9-2007, Almeria, conference in honor of Fred Van Oystaeyen.
- (98) 1-11-07 to 30-11-07, Barcelona, Spain.
- (99) 5-11-2008 to 15-11-2008, Barcelona, 1 lecture on meeting “Derived categories”.
- (100) 5-5-2008 to 30-06-2008, Barcelona, plenary lecture at “HOCAT 2008 - Homotopy structures in geometry and algebra; derived categories, higher categories”.
- (101) 11-8-2008 to 15-8-2008, Bonn, lecture at meeting on “Deformation quantization”.
- (102) 1-9-2008 to 5-9-2008, Pisa, lecture at “Cats 3”.
- (103) 28-11-2008 to 29-11-2008, Reims, lecture at meeting in honor of “Jacques Alev”.
- (104) 24-8-2009 to 28-8-2009, Kyoto, lecture at meeting on “non-commutative geometry”.
- (105) 24-6-2010 to 26-6-2010, Canterbury, lecture at the “Kent algebra days”.
- (106) 21-10-2010, Bonn, lecture in the algebraic geometry seminar at the Max Planck Institute.
- (107) 18-10-2010, Bonn University, lecture in the representation theory seminar.
- (108) 15-11-2010, Paris, lecture at the Séminaire d’Algèbre at the IHP.

- (109) 24-1-2010 to 28-1-2010, Tokyo, lecture at the conference “Derived Categories”.
- (110) 18-2-2011, Amsterdam, lecture at the GQT colloquium.
- (111) 20-2-2011 to 26-2-2011, OberWolfach, lecture at the conference “Representation Theory of Quivers and Finite Dimensional Algebras”.
- (112) 21-05-2011 to 27-05-2011, Cordoba, Argentina, 4 lectures at a “Spring school” on non-commutative ring theory.
- (113) 27-06-2011 to 1-07-2011, Ascona, Switzerland, lecture at the conference “The legacy of deformation quantization”.
- (114) 8-08-2012 to 17-08-2012, ICRA, Bielefeld. Lecture.
- (115) 27-08-2012 to 7-09-2012, Berkeley, MSRI introductory workshop on commutative algebra and cluster algebras, 3 lectures.
- (116) 8-12-2013 to 14-12-2013, OberWolfach, Cluster Algebras and Related Topics.
- (117) 16-02-2014 to 22-02-2014, OberWolfach, Representation Theory of Quivers and Finite Dimensional Algebras, lecture.
- (118) 21-03-2014 to 6-04-2014, MIT, Scientific cooperation with Gonçalo Tabuada.
- (119) 18-05-2014 to 24-05-2014, OberWolfach, Noncommutative geometry and representation theory, organizer.
- (120) 7-07-2014 to 12-07-2014, Eugene, Scientific cooperation with Alexander Polishchuk.
- (121) 14-07-2014 to 18-07-2014, Palo Alto, participation in AIM workshop (collaborative research).
- (122) 22-10-2014 to 24-10-2014, Clermond Ferrand, mini course about the joint work with Calaque and Rossi.
- (123) 8-12-2014 to 13-12-2014, Warwick, DG enhancements and higher category methods, lecture.
- (124) 26-04-2015 to 2-05-2015, New York, Columbia University, two lectures.
- (125) 1-06-2015 to 6-06-2015, Warwick, Derived categories and birational geometry, lecture.
- (126) 10-08-2015 to 14-08-2015, Mexico, Guanajuato, D-modules in Commutative Algebra, lecture.
- (127) 10-11-2015 to 14-11-2015, London, Imperial College, Seminar lecture.
- (128) 15-11-2015 to 31-11-2015, University of Edinburgh, Seminar lecture.
- (129) 1-1-2016 to 31-1-2106, Bonn, Max Planck Institute, lecture.
- (130) 18-3-2016 to 22-3-2016, Bonn, Max Planck Institute, Closing Conference for the Program on Higher Structures in Geometry and Physics, lecture.
- (131) 1-7-2016 to 9-7-2016, Osaka University, lecture.
- (132) 10-7-2016, Nagoya Univerity, lecture.
- (133) 13-7-2016 to 17-7-2016, RIMS, Kyoto, lecture.
- (134) 27-7-2016 to 1-7-2016, Toulouse, New methods in birational geometry, lecture.
- (135) 4-7-2016 to 8-7-2016, Dijon, Interacting algebraic geometry, lecture.
- (136) 28-11-2016 to 2-11-2016, San Jose, participation in AIM SQUARES meeting (collaborative research).
- (137) 9-1-2017 to 21-1-2017, Ljubljana (research cooperation).
- (138) 20-2-2017 to 23-2-2017, Osaka, Derived category and birational geometry, lecture.

- (139) 15-5-2017 to 19-5-2017, Bielefeld, Triangulated Categories and Geometry - a conference in honour of Amnon Neeman, lecture.
- (140) 19-7-2017 to 23-6-2017, Edinburgh, Linking noncommutative rings and algebraic geometry, lecture.
- (141) 16-10-2017 to 27-10-2017, Bonn, Hausdorff Institute, Conference+research visit, lecture.
- (142) 27-8-2018 to 31-8-2018, San Jose, participation in AIM SQUARES meeting (collaborative research).
- (143) 26-11-2018 to 30-11-2018, Hokaido, Categorical and analytic invariants in algebraic geometry, lecture.