

MILESTONES:

- [Aus71] Maurice Auslander, *Representation dimension of Artin algebras*, Queen Mary College Mathematics Notes (1971), republished in [Aus99].
- [Iya03a] Osamu Iyama, *Finiteness of representation dimension*, Proc. Amer. Math. Soc. **131** (2003), no. 4, 1011–1014.
- [Rou06] Raphaël Rouquier, *Representation dimension of exterior algebras*, Invent. Math. **165** (2006), no. 2, 357–367.

RESULTS ON REPRESENTATION DIMENSION:

- [APT06] Ibrahim Assem, María Inés Platzeck, and Sonia Trepode, *On the representation dimension of tilted and laura algebras*, J. Algebra **296** (2006), no. 2, 426–439.
- [Aus99] Maurice Auslander, *Selected works of Maurice Auslander. Part 1*, American Mathematical Society, Providence, RI, 1999, Edited and with a foreword by Idun Reiten, Sverre O. Smalø, and Øyvind Solberg.
- [Ber07] Petter Andreas Bergh, *Representation dimension and finitely generated cohomology*, arXiv:0711.2794, 2007, Preprint.
- [BHS04] Rafał Bocian, Thorsten Holm, and Andrzej Skowroński, *The representation dimension of domestic weakly symmetric algebras*, Cent. Eur. J. Math. **2** (2004), no. 1, 67–75 (electronic).
- [BO07] Petter Andreas Bergh and Steffen Oppermann, *The representation dimension of quantum complete intersections*, 2007, Preprint.
- [CP04] Flávio U. Coelho and María Inés Platzeck, *On the representation dimension of some classes of algebras*, J. Algebra **275** (2004), no. 2, 615–628.
- [Dug07] Alex S. Dugas, *Representation dimension as a relative homological invariant of stable equivalence*, Algebr. Represent. Theory **10** (2007), no. 3, 223–240.
- [EHIS04] Karin Erdmann, Thorsten Holm, Osamu Iyama, and Jan Schröer, *Radical embeddings and representation dimension*, Adv. Math. **185** (2004), no. 1, 159–177.
- [Guo05] Xiangqian Guo, *Representation dimension: an invariant under stable equivalence*, Trans. Amer. Math. Soc. **357** (2005), no. 8, 3255–3263 (electronic).
- [HH06] Thorsten Holm and Wei Hu, *The representation dimension of $k[x, y]/(x^2, y^n)$* , J. Algebra **301** (2006), no. 2, 791–802.
- [Hol03] Thorsten Holm, *Representation dimension of some tame blocks of finite groups*, Proceedings of the First Sino-German Workshop on Representation Theory and Finite Simple Groups (Beijing, 2002), vol. 10, 2003, pp. 275–284.
- [Hol04] ———, *The representation dimension of Schur algebras: the tame case*, Q. J. Math. **55** (2004), no. 4, 477–490.
- [HX06] Wei Hu and Changchang Xi, *Auslander-Reiten sequences and global dimensions*, Math. Res. Lett. **13** (2006), no. 5-6, 885–895.
- [IT05] Kiyoshi Igusa and Gordana Todorov, *On the finitistic global dimension conjecture for Artin algebras*, Representations of algebras and related topics, Fields Inst. Commun., vol. 45, Amer. Math. Soc., Providence, RI, 2005, pp. 201–204.
- [Iya04a] Osamu Iyama, *Representation dimension of Artin algebras*, Proceedings of the 36th Symposium on Ring Theory and Representation Theory, Symp. Ring Theory Represent Theory Organ. Comm., Yamanashi, 2004, pp. 8–21.

- [KK06] Henning Krause and Dirk Kussin, *Rouquier's theorem on representation dimension*, Trends in representation theory of algebras and related topics, Contemp. Math., vol. 406, Amer. Math. Soc., Providence, RI, 2006, pp. 95–103.
- [Opp07a] Steffen Oppermann, *Finding lower bounds for Auslander's representation dimension*, preprint, 2007.
- [Opp07b] ———, *A lower bound for the representation dimension of kC_p^n* , Math. Z. **256** (2007), no. 3, 481–490.
- [Rou05] Raphaël Rouquier, *Dimensions of triangulated categories*, Preprint, 2005.
- [Xi00] Changchang Xi, *On the representation dimension of finite dimensional algebras*, J. Algebra **226** (2000), no. 1, 332–346.
- [Xi02] ———, *Representation dimension and quasi-hereditary algebras*, Adv. Math. **168** (2002), no. 2, 193–212.
- [Xi06a] ———, *Adjoint functors and representation dimensions*, Acta Math. Sin. (Engl. Ser.) **22** (2006), no. 2, 625–640.
- [Xi06b] ———, *On the finitistic dimension conjecture. II. Related to finite global dimension*, Adv. Math. **201** (2006), no. 1, 116–142.

BACKGROUND:

- [Iya03b] Osamu Iyama, *Rejective subcategories of artin algebras and orders*, arXiv:math.RT/0311281, 2003, preprint.
- [Iya04b] ———, *Representation dimension and Solomon zeta function*, Representations of finite dimensional algebras and related topics in Lie theory and geometry, Fields Inst. Commun., vol. 40, Amer. Math. Soc., Providence, RI, 2004, pp. 45–64.
- [Iya07a] ———, *Auslander correspondence*, Adv. Math. **210** (2007), no. 1, 51–82.
- [Iya07b] ———, *Higher-dimensional Auslander-Reiten theory on maximal orthogonal subcategories*, Adv. Math. **210** (2007), no. 1, 22–50.
- [Leu07] Graham J. Leuschke, *Endomorphism rings of finite global dimension*, Canad. J. Math. **59** (2007), no. 2, 332–342.
- [Xi04] Changchang Xi, *On the finitistic dimension conjecture. I. Related to representation-finite algebras*, J. Pure Appl. Algebra **193** (2004), no. 1-3, 287–305.