

LOCALIZING INVARIANTS AND K-THEORY – REFERENCES

GEORG TAMME

- *Localizing invariants in general*: ...and non-commutative motives [BGT], [# 9, App. A]
- *K-theory is localizing*: Waldhausen’s localization theorem for connective K -theory [W], non-connective K -theory of schemes [TT], non-connective K -theory of exact categories [S], for stable ∞ -categories [BGT], direct proof using only ∞ -categorical methods [HLS]
- *Thomason–Neeman localization theorem*: Original sources: [TT, N1], modern account: [NS, §I.3].
- *Compact generation of $D_{qc}(X)$* : for X qc separated scheme [N2], for X qcqs scheme [BvdB], for X qcqs spectral algebraic space [CMNN]
- \odot -ring: oriented fiber products [T1], \odot -ring, truncating invariants and applications [LT]
- *cdh- and pro-cdh-descent*: pro-cdh descent for K -theory: first paper, with more assumptions [M], general, Noetherian case [KST]; stronger pro-cdh descent for localizing invariants for Noetherian stacks [BKRS]. cdh-descent for truncating invariants [LT, App. A].

REFERENCES

- [BGT] Blumberg, Andrew J.; Gepner, David; Tabuada, Gonalo, *A universal characterization of higher algebraic K-theory*, Geom. Topol. 17 (2013), no. 2, 733–838.
- [BKRS] Bachmann, T.; Khan, A.; Ravi, S.; Sosnilo, V. *Categorical Milnor squares and K-theory of algebraic stacks*. Selecta Math. (N.S.)28(2022), no.5, Paper No. 85, 72 pp.
- [BvdB] Bondal, A.; van den Bergh, M. *Generators and representability of functors in commutative and noncommutative geometry*. Mosc. Math. J., 3(1):1–36, 258, 2003.
- [# 9] Calmes, B.; Dotto, E.; Harpaz, Y.; Hebestreit, F.; Land, M.; Moi, K.; Nardin, D.; Nikolaus, T.; Steimle, W. *Hermitian K-theory for stable ∞ -categories II: Cobordism categories and additivity* arXiv:2009.07224
- [CMNN] Clausen, D.; Mathew, A.; Naumann, N.; Noel, J. *Descent in algebraic K-theory and a conjecture of Ausoni–Rognes*, J. Eur. Math. Soc. (JEMS)22(2020), no.4, 1149–1200
- [HLS] Hebestreit, F.; Lachmann, A.; Steimle, W., *The localisation theorem for the K-theory of stable ∞ -categories*, arXiv:2205.06104
- [KST] Kerz, M.; Strunk, F.; Tamme, G. *Algebraic K-theory and descent for blow-ups* Invent. Math.211(2018), no.2, 523–577
- [LT] Land, M.; Tamme, G. *On the K-theory of pullbacks*. Ann. of Math. (2)190(2019), no.3, 877–930
- [M] Morrow, M. *Pro cdh-descent for cyclic homology and K-theory*. J. Inst. Math. Jussieu 15(3), 539–567 (2016)

- [N1] Neeman, A., *The connection between the K-theory localization theorem of Thomason, Trobaugh and Yao and the smashing subcategories of Bousfield and Ravenel*, Ann. Sci. École Norm. Sup. (4) 25 (1992), no. 5, 547–566.
- [N2] Neeman, A., *The Grothendieck duality theorem via Bousfield’s techniques and Brown representability*. J. Amer. Math. Soc., 9(1):205–236, 1996.
- [NS] Nikolaus, Thomas; Scholze, Peter, *On topological cyclic homology*, Acta Math. 221 (2018), no. 2, 203–409.
- [S] Schlichting, M. *Delooping the K-theory of exact categories*, Topology 43(2004), no.5, 1089–1103.
- [T1] Tamme, G. *Excision in algebraic K-theory revisited*. Compos. Math.154(2018), no.9, 1801–1814
- [TT] Thomason, R. W.; Trobaugh, Thomas, *Higher algebraic K-theory of schemes and of derived categories*, Progr. Math., 88 Birkhäuser Boston, Inc., Boston, MA, 1990, 247–435.
- [W] Waldhausen, F., *Algebraic K-theory of spaces*. Algebraic and geometric topology (New Brunswick, N.J., 1983), 318–419. Lecture Notes in Math., 1126 Springer-Verlag, Berlin, 1985