

COMPACTLY GENERATED SMASHING SUBCATEGORIES

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Abstract. For a smashing subcategory of a compactly generated triangulated category, we give here some necessary and sufficient conditions to be also compactly generated.

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REFERENCES

- [1] GABRIEL, P., *De catégories abéliennes*, Bull. Soc. Math. France, **90** (1962), 323–448.
- [2] KELLER, B., *A remark on the generalized smashing conjecture*, Manus. Math., **84** (1994), 193–198.
- [3] KRAUSE, H., *Brown representability and flat covers*, J. Pure and Appl. Alg., **157** (2001), 81–86.
- [4] KRAUSE, H., *Smashing subcategories and the telescope conjecture – an algebraic approach*, Invent. Math., **139** (2000), 99–133.
- [5] MODOI, C., *Modules over triangulated categories and localization*, Stud. Univ. Babes–Bolyai (submitted).
- [6] NEEMAN, A., *The chromatic tower of $D(R)$* , Topology, **31** (1992), 519–532.
- [7] NEEMAN, A., *Triangulated Categories*, Ann. Math. Stud., Princeton University Press, 2001.
- [8] POPESCU, N., and POPESCU, L., *Theory of Categories*, Editura Academiei, Bucureşti, România and Sijhoff & Noordhoff International Publishers, 1979.

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