

a review of Local presentability of certain
comma categories. by Polonsky, Andrew; Johann,
Patricia

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journal or publication title	Zentralblatt MATH
URL	http://hdl.handle.net/2241/00159723

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Local presentability of certain comma categories. (English) [Zbl 07177291](#)
Appl. Categ. Struct. 28, No. 1, 135-142 (2020).

It is well known [*J. Adámek and J. Rosický, Locally presentable and accessible categories.* Cambridge: Cambridge University Press (1994; [Zbl 0795.18007](#))], Proposition 2.43] that if A and C are λ -presentable categories and $F : A \rightarrow C$ is a λ -accessible functor, then $\text{id}_C \downarrow F$ is also locally λ -presentable. This paper establishes that

Proposition. If A and C are λ -presentable categories and $F : A \rightarrow C$ is a λ -accessible functor, then $F \downarrow \text{id}_C$ is also locally λ -presentable.

Reviewer: [Hirokazu Nishimura \(Tsukuba\)](#)

MSC:

18 Category theory; homological algebra

Keywords:

[locally presentable category](#); [accessible category](#); [accessible functor](#); [comma category](#)

Full Text: [DOI](#)

References:

- [1] Adámek, J.; Rosický, J., *Locally Presentable and Accessible Categories* (1994), Cambridge: Cambridge University Press, Cambridge · [Zbl 0795.18007](#)
- [2] Kelly, Gm, *A unified treatment of transfinite constructions for free algebras, free monoids, colimits, associated sheaves, and so on*, Bull. Aust. Math. Soc., 22, 1-83 (1980) · [Zbl 0437.18004](#)

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