M. Hovey [“Smith ideals of structured ring spectra”, arXiv:1401.2850] showed that if $M$ is a cofibrantly generated model category, then its arrow category $\tilde{M}$ equipped with the pushout product monoidal structure and the projective model structure is a monoidal model category [S. Schwede and B. E. Shipley, Proc. Lond. Math. Soc. (3) 80, No. 2, 491–511 (2000; Zbl 1026.18004)]. D. Pavlov and J. Scholbach [Homology Homotopy Appl. 20, No. 1, 359–397 (2018; Zbl 1390.18023)] established the generalized result without assuming cofibrant generation on $M$, using an inductive argument that involves decomposition of certain maps into composites of pushouts. This paper reproves the same result by a direct, non-inductive argument.

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MSC:

18M05 Monoidal categories, symmetric monoidal categories
18M60 Operads (general)
18N40 Homotopical algebra, Quillen model categories, derivators

Software:
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