

Journal of Algebra and Applied Mathematics

Vol. 24 (2026), No.1, pp.1-16

ISSN: 2319-7234

© SAS International Publications

URL : www.sasip.net

On endomorphism rings of finite type étale algebras over Henselian rings

S. Kamalakar* and R.P. Deore

Abstract. This paper studies the strong cleanness of endomorphism rings of finite étale algebras over Henselian rings. Building upon the results of Camillo *et al.* [3] and Couchot [5], we extend the characterization of strong cleanness of endomorphism ring of a finite type étale algebras over a Henselian ring. In particular, we prove that if R is a Henselian ring and A is a finite étale R -algebra, then the endomorphism ring $\text{End}_R(A)$ is strongly clean. This establishes a structural link between the Henselian property, étale algebras, and the decomposition behavior of endomorphism rings.

AMS Subject Classification (2020): Primary:13B40, 13J15, 17C27

Keywords: Endomorphism ring, strongly clean ring, étale algebra

*Corresponding author