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AMERICAN MATHEMATICAL SOCIETY

## MR857209 (87k:57013) 57N12 (54B15 54F35) Bing, R. H.

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## Decompositions that destroy simple connectivity.

Illinois J. Math. 30 (1986), no. 4, 527–535.

Providing details for a result he first claimed in 1955, the author efficiently proves that every decomposition space of  $\mathbb{R}^3$  involving a solenoid as its only nondegenerate element fails to be simply connected. The paper is written in typically down-to-earth, readable Bing style; unfortunately, its treatment of the more general circumstances under which such one-element decomposition spaces Y fail to be simply connected includes no information about developments during the intervening years. The author's ad hoc term "unlike-a-solenoid" seems destined to be less popular than the now common "nearly 1-movable," and a question he raises about the relationship between simple connectivity and local simple connectivity in Y has been neatly answered by D. R. McMillan, Jr. and N. Shrikhande [Glas. Mat. Ser. III **12(32)** (1977), no. 1, 113–124; MR0500914 (58 #18415)]. Reviewed by *R. J. Daverman* 

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Citations

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