

Review of: "Representations of Lie Groupoids on Bundles"

István Estélyi¹

¹ University of Pannonia

Potential competing interests: No potential competing interests to declare.

The paper reviews some standard concepts of topology, i.e., vector bundles and covering spaces, and the theory of Lie groupoids.

However, the greatest flaw is that the paper completely lacks original mathematical content: no theorems nor proofs are present - the major and most important part of any research work. What is the goal of the paper, one may ask.

One should always try to put their work in context, connecting our work with the research of other scientists. The references herein are mostly introductory textbooks or lecture notes, no research papers that would be closely related to the topic at hand. I suggest reading the following paper:

A. Garcia-Saz and R. Amit-Meta: *VB-groupoids and representation theory of Lie groupoids*, J Sympl. Geom. 15 (2017)

It seems to have the topic covered in far more detail, cf. Proposition 3.5, with the vague question at the end of the present work.

On the flip side, the examples provided here are nice and useful in adding context, but they also require revision, e.g., examples 2 and 4 are the same.