



Mart Abel (mart.abel@ut.ee), Institute of Pure Mathematics, University of Tartu, 50409 Tartu, Estonia, *On an equivalence between the categories of certain bundles and certain sheaves.*

ABSTRACT. It is well known that with every bundle one can associate, via the collection of its local sections, a presheaf and through it also a sheaf. Let A be a topological algebra. In some recent papers we have shown that there is actually a category equivalence between the category of bundles of A -modules and the category of sheaves of A -modules. Similarly we can substitute A -modules by just universal algebras. Actually, even stronger result holds. Precisely, there is a category equivalence between the category of locally sliceable fiber spaces over a topological space X and the category of sheaves of sets over X . The terminology and the main ideas of the proof will be explained in details during the talk.