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ON COMPLETE REDUCIBILITY OF MODULE BUNDLES: CORRIGENDUM

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In Theorem 3.5 ([1], p. 407), we need the base space X to be compact Hausdorff, so that it has a finite partition of unity.

We have obtained an L-submodule V' of V and module bundle isomorphisms

$$\alpha_1 : U_1 \times V' \to \bigcup_{y \in U_1} \eta'_y \quad \text{and} \quad \hat{\alpha} : U_1 \times V \to \bigcup_{y \in U_1} \eta_y .$$

Since L is semisimple, there exists a submodule V'' of V such that $V = V' \oplus V''$ as L-modules. We define $\hat{f} : U \times V \to U \times V'$ by $\hat{f}(y, v) = (y, v')$ where $v = v' \oplus V''$, $v' \in V'$, $v'' \in V''$. Then $f : \bigcup_{y \in U_1} \eta_y \to \bigcup_{y \in U_1} \eta'_y$ is given by $f = \alpha_1 \cdot \hat{f} \cdot (\hat{\alpha})^{-1}$.

Thus we have constructed the splitting morphism locally.

The local splitting morphisms together with the notion of partitions of unity give us the required splitting morphism.

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[1] G. Prema and B.S. Kiranagi, "On complete reducibility of module bundles", *Bull. Austral. Math. Soc.* **28** (1983), 401-409.

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