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On the functorial prolongations of principal bundles

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Abstract: We describe the fundamental properties of the infinitesimal actions related with functorial prolongations of principal and associated bundles with respect to fiber product preserving bundle functors. Our approach is essentially based on the Weil algebra technique and an original concept of weak principal bundle.

Keywords: fiber product preserving bundle functor, weak principal bundle, Lie algebroid, functorial prolongation, Weil algebra

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