

Jérémie Pierard de Maujouy : Generalised Frame Bundles and Einstein's Equation

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We introduce the structure of generalised frame bundles, which generalises that of frame bundles with connection by keeping only the local part of the structure.

This definition is motivated by a Lagrangian field theory which we will present.

Its solution fields define on the 10-dimensional source manifold a structure of generalised frame bundle which satisfy further equations.

Some of these equations are shown to imply Einstein's equation in the case of a standard frame bundle and therefore can be used as a suitable generalisation thereof.