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Nonlinear connections and its applications

Nonlinear stabile connections γ^p introduced by the author in higher order frames bundles $H^p(X_n)$ induce on X_n a system of ordinary differential equations of the order $p+1$:

$$S^{p+1} : T^p(X_n) \to T^{p+1}(X_n)\,.$$

A natural differential operator from the set of arbitrary stationar systems S^{p+1} in the set of stabile nonlinear connections γ^p is constructed.