Title: Nonlinear connections for conformal gauge theories on path-spaces and duality

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Weyl structures and compatible nonlinear connections are introduced in the geometry of semisprays as a natural generalization of similar notions from Riemannian geometry. The existence and formula for the set of all compatible nonlinear connections are derived by using the Obata tensors naturally associated to a fixed metric in the given conformal class; this formula is also expressed in terms of dual nonlinear connections which generalize the Norden's notion of dual linear connections. A geometric meaning for pairs (Weyl structure, compatible nonlinear connection) is provided in terms of gauge conformal invariance.

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