

String geometry and loop spaces

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I will present an overview about foundational concepts in string geometry, including the string 2-group, string structures, and string connections, and discuss their relation to spin geometry on loop space. I will then outline a recent construction of the stringor bundle - a 2-vector bundle over a string manifold - inspired by ideas of Stolz and Teichner, and developed in collaboration with Peter Kristel and Matthias Ludewig.