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Membrane sigma models and DFT

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Based on the one-to-one correspondence between Courant algebroids and membrane sigma models, we propose a membrane sigma model for double field theory. We discuss the relation of the sigma model to the flux formulation of DFT and show that its gauge symmetries reproduce the structure of a DFT algebroid. In addition, we present some examples that clarify its relation to non-geometric string backgrounds. Finally, we discuss the possibility of relaxing the strong constraint of DFT by allowing for a dynamical fiber metric.

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