

Membranes and domain walls in $N=1$, $D=4$ SYM

Monday, October 21, 2019 2:30 PM (35 minutes)

We will review main features of the pure $N=1$, $D=4$ SYM and its effective description by the Veneziano-Yankielowicz generalized sigma-model. We will then argue that the construction of $1/2$ BPS domain walls interpolating between different SYM vacua requires the presence of a dynamical membrane source. We will show how such a membrane is coupled to the SYM and present the explicit form of the BPS domain walls which it creates in the Veneziano-Yankielowicz effective theory.

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