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

Monday, 21 October 2019 14:30 (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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