

Abstract Submitted  
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**Effects of a fundamental mass term in two-dimensional super Yang-Mills theory**<sup>1</sup> UWE TRITTMANN, Otterbein College — We show that a vacuum expectation value of the perpendicular gauge boson in three-dimensional supersymmetric QCD generates mass terms for the fundamental fields, while supersymmetry stays intact. This is similar to the adjoint mass term that can be generated by a Chern-Simons term in this theory. We dimensionally reduce the theory to two dimensions, and study the spectrum of the ensuing model as a function of the new parameter  $v := \langle A^\perp \rangle$ .

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