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$N=(0,2)$ Heterotic $CP(N-1)$ Sigma models and a Nonrenormalization Theorem

Sunday, 28 August 2011 14:50 (20 minutes)

I will talk about the renormalization of 2 dimensional $N=(0,2)$ heterotic $CP(N-1)$ sigma models. I will discuss the one loop result, and various limiting cases that allow us to extend the analysis to all loop order. An interesting result is a version of D-term nonrenormalization theorem for $N=(0,2)$ linear models, which might shed light on our understanding of the nonrenormalization theorems for generic $N=(0,2)$ theories. This is joint work with M. Shifman.

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