## The $\lambda = 4$ SYM

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## Abstract

In the present work we study the anomalous dimensions of  $N\ (N=4\ SYM)$  in the presence of a scalar field and investigate the effects of a scalar field in the  $\mathcal\{N\}\$ -dimensional limit. We find that in the presence of a scalar field all the anomalous dimensions of the  $\mathcal\{N\}\$ -dimensional  $\mathcal{A}\$ -dimensional  $\mathcal{A}\$ -dimensional  $\mathcal{A}\$ -dimensional  $\mathcal{A}\$ -dimensional  $\mathcal{A}\$