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Supersymmetric Yang-Mills theory in higher dimensions

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The SYM theory in higher dimensions, namely $D=6,8,10$ cases were considered. The main interest is UV divergence of the theory, basically leading pole behavior. Based on calculation of some first loops an iterative procedure which allows to predict leading poles in each order without its direct calculation were constructed. Using this procedure a set of equations which provides a possibility to investigate divergent properties of a theory in leading order was obtained. Also some features and interesting properties of these equations were revealed.

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