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## Quantum corrections to broken $N=8$ supergravity

*Saturday 7 July 2012 09:00 (20 minutes)*

We show that, for all tachyon-free classical Minkowski vacua with four-dimensional spontaneously broken  $N=8$  supergravity, the one-loop effective potential is calculable and finite. We also find that, in all presently known examples, it is negative-definite.

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**Track Classification:** Track 12. Formal Theory Developments