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## Higher Derivative Corrections in M-theory via Local Supersymmetry

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Higher derivative terms in M-theory are investigated by applying the Noether method. Cancellation of variations under the local supersymmetry is examined to the order linear in  $F$  by a computer program. Structure of  $R^4$  terms is uniquely determined and exactly matches with one-loop effective terms in type IIA superstring theory. A part of  $R^3 F^2$  terms is also determined.

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