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Supersymmetric nonlocal theories

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We construct $N = 1$ supersymmetric nonlocal theories in four dimension. We discuss Higher derivative extension of Kahler potential as well as that of superpotential. Then, we obtain the on-shell condition. As a concrete example, we consider nonlocal extension of the O'RAIFERATAIGH model and discuss how the mass formula is modified in comparison to the local case.

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