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Projective superspace in Gauge field theories

Projective superspace formalism is a manifestly supersymmetric approach to describe extended supersymmetric field theories off-shell. I will describe this method and discuss general aspects of gauge theories in this setting. Then, the 4-dimensional $N=2$ Yang-Mills theory as well as 3-dimensional $N=3$ Chern-Simons will be treated in this projective formalism. Particularly, the field strength and subsequently the actions are described in terms of the unconstrained prepotential. The main advantage of this approach is the expressions are readily reduced to lower supersymmetric components.

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