



MAFIA - the seminar you can't refuse

Space-filling D2 brane within nonlinear realization approach

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Abstract: We review the method to construct the on-shell component actions for the theories with $1/2$ partial breaking of global supersymmetry within the nonlinear realization (coset) approach. In contrast with the standard superfield approach in which unbroken supersymmetry plays the leading role, we have shifted the attention to the spontaneously broken supersymmetry. It turns out that in the theories in which half of supersymmetries is spontaneously broken, all physical fermions are just the fermions of nonlinear realization. We supply the general consideration by detailed example of the component action of space-filling D2 brane constructed within our procedure.