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Schwarzians with extended supersymmetry

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We revisit the construction of supersymmetric Schwarzians using nonlinear realizations. We show that supersymmetric Schwarzians can be systematically obtained as certain projections of Maurer-Cartan forms of superconformal groups after imposing simple conditions on them.

We also present the supersymmetric Schwarzian actions, defined as the integrals of products of Cartan forms. In contrast with the previous attempts to obtain the super-Schwarzians within nonlinear realizations technique, our set of constraints does not impose any restriction on the super-Schwarzians.

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