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Extended symmetries

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Extended symmetry transformations do not leave the action fully invariant, but change it by a term linear in field expectation values or known composite fields. I will discuss how this leads to a modified version of Noether's theorem with currents that are conserved up to known terms. I will also discuss how an extended version of Galilei boost symmetry allows to close and solve renormalization group equations for cosmological large-scale structure formation in certain regimes.

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