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Canonical Effective Methods for Quantum Systems SUDDHASATTWA BRAHMA, MARTIN BOJOWALD, Pennsylvania State University — Canonical effective equations are a powerful method of describing quantum systems. Using this formulation, we not only recover the results known from standard field theory, but also extend them, for instance, by allowing for a non-gaussian state as the expansion basis (useful for cosmology), and accommodating a deformed version of general covariance. Several interesting applications of these methods (like Coleman-Weinberg type potentials and higher derivative corrections) shall be discussed in this talk.

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