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Stochastic inflation beyond slow roll

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I will begin by introducing the stochastic formalism for inflation. I will give some motivation for using the stochastic approach and then explain why we may want to consider situations that violate slow roll. I will explain the requirements for stochastic inflation to be a valid approach and discuss whether they are still appropriate when we are away from slow roll. The two requirements that I will consider in detail are the separate universe approach and the choice of gauge that our stochastic equations are written in. I will show that the stochastic formalism is safe to be used, even when slow roll is violated.

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