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## INFLATION MODELS AND ITS IMPLICATIONS

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Although inflation theory modifies our understanding of the first fraction of a second in the history of the universe, when combined with the standard Big Bang theory it preserves all the successes of the previous theory and complements it. Scientific literature shows that it is not really a single theory, but that there are a multitude of scenarios with names such as old inflation, new inflation, chaotic inflation, among others. The new Data, specifically those from the Planck satellite, can put restrictions, and even discard some of them. This project consists of a review of the theories of single field slow roll inflation and its current state.

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