

Astro Physics of Theoretical Physics

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ABSTRACT

After three years of very successful experimental work at Large Hadron Collider (LHC) at CERN, theoretical physics is apparently in the greatest crisis in its history. The creation of the quality Model of Particles and Fields was a triumph of theoretical physics. The cornerstone of that triumph was experiments, which discovered signatures of “new physics” and directed theoretical thinking in the right direction; theorists of that time were lucky to have experimental guidance in their service. However, after the advent of the Standard Model, from the theoretical point of view, the experiments have become a long series of boring results; a complete confirmation of the Standard Model, without any discrepancy indicating “new physics” beyond the Standard Model. It became clear that the eventual shortcomings of the Standard Model could not be revealed before the construction of the Large Hadron collider (LHC) at CERN.

Keywords: Large Hadron Collider (LHC), Milky Way, Astronomy

INTRODUCTION

In fact, thousands of theorists (so numerous that we can talk about the first army, in the history of theoretical physics) were completely absorbed with the development of super symmetric theories, and strongly convinced that the forthcoming experiments at LHC would not only reveal the shortcomings of the Standard Model but also confirm the predictions of super symmetric theories. Contrary to these expectations, after three years of work at LHC, the experimental findings strongly confirm the Standard Model and have nearly eliminated super symmetry as a possible physical theory. It seems inevitable that we have to face the Nightmare Scenario (i.e. no signs of latest physics at LHC) and therefore the unprecedented collapse of decades of speculative work. The current crisis is worsened by the very fact that the long domination of super symmetric theories has largely suppressed alternative thinking. Map the distribution of galaxies, gas, and substance within the universe, and survey the celebs and planets within the Milky Way.

MAPPING OF GALAXIES

Mapping the distant universe will help to reveal the formation of galaxies within the early universe and their maturation to this, the evolution of primordial hydrogen and helium gas created within the explosion into gas enriched with most of the matter found within the table, and therefore the distribution and nature of the mysterious substance that constitutes most of the matter in the universe. Surveys within the Milky Way will help to reveal how stars and planets are created in collapsing clouds of gas and mud and therefore the variety and abundance of planetary systems. Astronomy is an unusual topic within the study of physics because the standard ‘scientific method’ is not so obvious. There are not any controlled experiments designed to research a theory. Instead astronomers make observations and collect data. One consequence of this is that the growth of knowledge in astronomy is very much dependent on the latest technology available to aid observations.

Hence, during the last three decades, theoretical physicists, who were trying to guess physics beyond the Standard Model, were completely deprived of reference points provided by experiment. In spite of it, a huge majority within the theoretical community were thinking that they have discovered new physics, without experiments.

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