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(I) Novel Directions in the Search for New Physics

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The Standard Model has been successful in describing phenomena that we observe from galactic down to subatomic scales. Nevertheless, it is not complete. The extreme weakness of gravity or the nature of Dark Matter are examples of puzzles that suggest the presence of new physics. Traditionally, we look for answers at colliders. In the last few years, we realized some of these answers may come from precision experiments that look for the tiny signals with which new physics may manifest itself. In this talk, I will review some of these ideas and the motivation behind them.

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