

Infrared Yang-Mills theory in the continuum

Abstract content

Over the last decades, there have been notorious advances in our understanding of nonabelian gauge theories in the deep infrared regime in a continuum (i.e., non-lattice) description, both on the conceptual and on the calculational side. As for the latter aspect, progress has initially been achieved through the solution of the Dyson-Schwinger equations of the theory, while more recently Callan-Symanzik equations have given an (almost) completely analytical description of the infrared regime. I shall give an overview of the most important results and the recent developments, concentrating throughout on pure Yang-Mills theory (without quarks) in Landau gauge.

Summary

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