

Research on QFT beyond the high-symmetry regime -resurgence, lattice and graph-

Wednesday, 29 November 2023 11:30 (1 hour)

Since the establishment of the Standard Model of elementary particles, the research in quantum field theory has investigated non-perturbative analysis based on theories with high symmetry, such as supersymmetry. However, the Standard Model, including QCD, has relatively low symmetry, and it is getting important to analyze theories based on features appearing only in QFT with low symmetry. In this talk, I will introduce resurgence theory and graph-based lattice field theory as directions for non-perturbative understanding of QFT that does not rely on symmetry, and will provide a guideline for future research on QFT.

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