

XVth Quark Confinement and the Hadron Spectrum



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Complex potential and open system applications in heavy-ion and cold atoms

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Since the discovery of the complex potential of quarkonium at high temperatures, quarkonium has been regarded as an open quantum system within the quark-gluon plasma. Recently, a similar issue regarding in-medium bound states of impurities has also emerged in particle physics and cold atomic physics. In this talk, I will provide an overview of recent advancements in understanding key quantities such as complex potential and transport coefficients in finite temperature QCD and cold atomic systems.

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