



# Strong Interactions in Spacelike and Timelike Domains: Dispersive Approach

*Alexander V. Nesterenko*

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
Alexander V. Nesterenko

**Strong Interactions in Spacelike and Timelike Domains: Dispersive Approach** Alexander V. Nesterenko

*Strong Interactions in Spacelike and Timelike Domains: Dispersive Approach* provides the theoretical basis for the description of the strong interactions in the spacelike and timelike domains. The book primarily focuses on the hadronic vacuum polarization function, R-ratio of electron-positron annihilation into hadrons, and the Adler function, which govern a variety of the strong interaction processes at various energy scales. Specifically, the book presents the essentials of the dispersion relations for these functions, recaps their perturbative calculation, and delineates the dispersively improved perturbation theory. The book also elucidates the peculiarities of the continuation of the spacelike perturbative results into the timelike domain, which is indispensable for the studies of electron-positron annihilation into hadrons and the related processes.

- Covers the topics that play an essential role in contemporary particle physics and future collider projects
- Applicable for self-education alongside standard textbooks
- Makes the subject easily accessible without the need of an extensive theoretical background

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