

Heavy quark relaxation time from the effective QCD potential

Thursday 4 September 2025 17:10 (10 minutes)

In this work, we investigate the scattering cross section for heavy quark using the Dual QCD potential within the framework of the Born approximation. The scattering cross section is presented as a function of momentum. This study is further extended to calculate the relaxation time and analyze its dependence on temperature.

Authors: Mr MURMU, Prasanta (Indian Institute of Technology Bhilai); Dr PUNETHA, Garima; Dr BANDY-OPADHYAY, Aritra; Dr GHOSH, Sabyasachi (Indian Institute of Technology Bhilai)

Presenter: Mr MURMU, Prasanta (Indian Institute of Technology Bhilai)

Session Classification: Poster Session