Contribution ID: **54** Type: **not specified**

Building a Model to Understand the Singular Behavior of the Kbar N Potential in the HAL QCD Method

Friday, April 4, 2025 10:20 AM (25 minutes)

The HAL QCD method has been established as a reliable method to study hadron-hadron interactions. However, singular behavior around the origin has been observed in the Kbar N potential, which dynamically generates the Lambda(1405) as the bound state. In order to clarify the cause of such behavior in the HAL QCD method, we calculate the NBS wave functions and R correlators in an effective model of hadron-hadron interactions and compare it with the Kbar N potential in the HAL QCD method.

Presenter: SEKIHARA, Takayasu (Kyoto Prefectural University)

Session Classification: Plenary Session