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## **DbarN interaction from the HALQCD method (and scattering theory in the near-threshold region based on analyticity of the S-matrix)**

*Tuesday, October 29, 2024 4:00 PM (1 hour)*

Many candidates of exotic hadrons have recently been found near the two-body threshold of hadronic channels. As an example, there have been studies predicting a near-threshold bound state or virtual state in the DbarN system. In this talk I will show the latest results of the DbarN interaction simulated by the HALQCD method near the physical point and discuss its consequences.

I also plan to briefly discuss the general analytical properties of the S-matrix and introduce a pole expansion that describes the near-threshold hadronic spectra by combining the notion of uniformization with the Mittag-Leffler Expansion.

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