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Type: Talk

Molecular states with charm: insights from vacuum and finite-temperature analyses

jeudi 6 juin 2024 18:00 (30 minutes)

This talk explores recent results in the study of molecular states with both open and hidden charm. Employing effective-field theories that incorporate heavy-flavor degrees of freedom and implement heavy-quark spin symmetry, significant progress has been made in generating bound and resonant states through unitarization techniques. Special attention will be given to the heavy-light sector, elucidating the double pole structure of the D⁰*(2300) state as well as the D⁰_s*(2317). In the hidden charm sector, the discussion will delve into exotics, like the X(3872), highlighting differences from the compact state interpretation. Furthermore, the feasibility of extracting relevant information from femtoscopy measurements will be discussed. A final part will cover the properties of molecules at a finite temperature in the context of heavy-ion collision phenomenology and how the molecular states can melt in such a medium.

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