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XYZ exotics with Effective Field Theory

Tuesday, 16 January 2024 16:45 (50 minutes)

On the basis of scales separation, we construct a general nonrelativistic effective field theory treatment for exotics XYZ states called BOEFT. Scale factorization introduces systematicity and simplicity allowing model independent predictions. The dynamics contained in the nonperturbative low energy correlators is addressed with new and tailored lattice QCD computational tools. We will show how the BOEFT is suitable to describe exotics states ranging from hybrids to tetraquarks and pentaquarks and report some applications.

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