LATTICE 2024

LIVERPOOL

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Studying the SU(3) confinement transition with nested sampling

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Nested Sampling (NS) gives access to observables across a range of couplings and temperatures from one Monte Carlo simulation. This talk demonstrates an application of NS to the first-order confinement transition in 3+1D SU(3) gauge theory, highlighting practicalities of the implementation, such as how NS handles the suppressed tunneling between coexisting phases at the phase transition.

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