

## Low-energy J/Psi-Hadron Interactions from Quenched Lattice QCD

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Abstract: The J/Psi-hadron interaction is an important input for studying the J/Psi suppression in hot hadronic matter and for studying the J/Psi propagation in nuclei. For this purpose, we measure the J/Psi-pi, J/Psi-rho and J/Psi-Nucleon scattering lengths by the quenched lattice QCD simulations with Wilson fermions at  $\beta = 6.2$  on  $32^3 \times 48$  and  $24^3 \times 48$  lattices. Using Luscher's method of utilizing the finite lattice volume, we find attraction in the s-wave channel for all three systems. A possibility of J/Psi-Nucleon bound state is also discussed.