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Gluelump Spectrum on Coulomb Gauge QCD PENG GUO, ADAM SZCZEPANIAK, Physics Department and Nuclear Theory Center, Indiana University, Bloomington, IN 47405, USA, ANDREA VASSALLO, GIUSEPPE GALATA, ELENA SANTOPINTO, I.N.F.N. and Dipartimento di Fisica,via Dodecaneso 33, Genova, I-16146, Italy — We compute the energy spectrum of low-lying gluonic excitations in the presence of static quark-antiquark octet color sources at zero separation using Coulomb gauge and the quasi-particle representation. The states also refer to gluelump states. We will show how does many-body interactions from nonabelian Coulomb kernel generate correct ordering of spectrum for spin-parity-charge conjugation multiplets.

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