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Eight spectra of very excited flux tubes in $SU(3)$ gauge theory

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We compute the spectra of flux tubes formed between a static quark antiquark pair up to a significant number of excitations and for eight symmetries of the flux tubes, up to Δ_u , using pure gauge $SU(3)$ lattice QCD in 3+1 dimensions. To accomplish this goal, we employ a large set of appropriate operators, an anisotropic tadpole improved action, smearing techniques, and solve a generalized eigenvalue problem. Moreover, we compare our results with the Nambu-Goto string model to evaluate possible tensions which could be a signal for novel phenomena.

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