Mass Spectrum of Tetraquark States

The masses of light, charmonium-like , fully charmed tetraquark states are calculated in a constituent quark model (CQM) with Cornell-like potential and Breit-Fermi interaction. The spin-spin interaction, spin-orbit interaction are derived from the Breit-Fermi interaction. The four coupling parameters for the Cornell-like potential and spin-dependent interaction are proposed to be mass-dependent in accordance with lattice QCD data and our previous work. All model parameters were predetermined by studying the low-lying S- and P-wave light, charmed, and bottom meson mass spectra.